

IN THE MATTER OF: )  
 )  
NOTICE OF PROPOSED )  
RULEMAKING FOR GENERAL )  
SERVICE LAMPS )  
 )

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IN THE U.S. DEPARTMENT OF ENERGY  
OFFICE OF ENERGY EFFICIENCY & RENEWABLE ENERGY

IN THE MATTER OF:                     )  
  )  
NOTICE OF PROPOSED                   )  
RULEMAKING FOR GENERAL             )  
SERVICE LAMPS                       )  
  )

Room 8E-089  
James Forrestal Building  
1000 Independence Ave., SW  
Washington, D.C.

Thursday,  
February 28, 2019

The parties met, pursuant to the notice, at  
9:05 a.m.

ATTENDEES:

FEDERAL MEDIATION & CONCILIATION SERVICE:

JAVIER RAMIREZ  
ISRAEL NUNEZ

U.S. DEPARTMENT OF ENERGY:

DANIEL COHEN  
SOFIE MILLER  
CELIA SHER  
NAEEMA CONWAY

ATTENDEES:

MARY ANDERSON  
JOHN AUGUSTINO  
TIM BALLO  
ALEX BOESENBERG  
DANIEL BRESSETTE  
DON BRUNDAGE

ATTENDEES: (Continued)

MARK COOPER  
DARIUS DIXON  
JENNIFER DOLIN  
RICHARD ELDER  
DAVE GATTO  
CHRISTOPHER GRANDA  
JOHN GREEN  
NOAH HOROWITZ  
JOSEPH HOWLEY  
RACHEL LEVINE  
PHI NGUYEN  
CHRIS PRIMOUS  
KEVIN ROSE  
STEVE ROSENSTOCK  
PATRICK SAXTON  
ANTHONY SERRES  
CLARK SILCOX  
BRYAN SILVERMAN  
LOUIS STARR  
JOE VUCKOVICH  
MICHAEL WEEMS  
SCOTT ZIMMERMAN

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P R O C E E D I N G S

(9:05 a.m.)

MR. RAMIREZ: Okay, let's go ahead and get started. This is for the General Service Lamps Notice of Proposed Rule. Again, my name is Javier Ramirez. I'm with Federal Mediation. This is Israel Nunez, my colleague. We're going to be facilitating today and I'm just going to go over a few logistical things, review the agenda quickly, before we get started. I'll say again, I know Jack's already told you, but I've heard that these mikes really do pick up quite a bit, so make sure that you turn it on when you want to talk and turn it off. And even when it is off, the acoustics in here are pretty impressive, so just be warned.

A few things: Breaks, we hope to break for lunch around noon and we're going to play that by ear. Let's see how the dialogue goes, but around noonish and then we'll about a 45-minute break. And then as far as breaks throughout the day, we'll just kind of see how the group is moving and see what we need to do in order to take those quick breaks. I turned my Bluetooth off on my phone. I've also heard some rumors that the system could pick up your Bluetooth. As much I'd want to see your photos on your phone, you

1 may not want to show those photos on your phone. Be  
2 warned, if you don't need to have the Bluetooth on  
3 your phone at the moment, you may to consider shutting  
4 that off.

5 Let's start off with some introductions.  
6 And as far as the introductions go, at least for right  
7 now, because I was doing the math on this just to kind  
8 of get an idea of opening statements and then review  
9 the material and comments. And when you break it all  
10 down, the timing is very compressed. When we go for  
11 the introductions around the room, just give your name  
12 and your organization. We don't need anything more at  
13 the moment. So, Israel, I'll start off with you.

14 MR. NUNEZ: Israel Nunez, Federal Mediation  
15 Conciliation Services.

16 MR. BOESENBERG: Alex Boesenberg, National  
17 Electrical Manufacturers Association.

18 MR. HOROWITZ: Noah Horowitz with the NRDC,  
19 the Natural Resources Defense Council.

20 MR. PRIMOUS: Chris Primous, MaxLite.

21 MR. GATTO: Dave Gatto, Westinghouse  
22 Lighting.

23 MR. HOWLEY: Joe Howley, GE Lighting.

24 MR. BRUNDAGE: Don Brundage, Southern  
25 Company.

1 MR. ZIMMERMAN: Scott Zimmerman, Silas, Inc.

2 MR. AUGUSTINO: John Augustino, Honeywell.

3 MR. SAXTON: Pat Saxton, California Energy  
4 Commission.

5 MR. NGUYEN: Phi Nguyen, Energy Solutions on  
6 behalf of the California Investor and Utilities.

7 MS. ANDERSON: Mary Anderson, PG&E.

8 MR. BALLO: Tim Ballo, Earthjustice.

9 MS. MILLER: Sofie Miller with the  
10 Department of Energy.

11 MR. COHEN: Dan Cohen, Department of Energy.

12 MS. SHER: Celia Sher, Department of Energy.

13 MR. SILCOX: Clark Silcox, National  
14 Electrical Manufacturer's Association.

15 MR. GREEN: John Green, The Finally Light  
16 Bulb Company.

17 MR. SERRES: Anthony Serres, Signify,  
18 formerly Philips Lighting.

19 MS. DOLIN: Jen Dolin, LEDVANCE.

20 MR. GRANDA: Chris Granda, Appliance  
21 Standards Awareness Project.

22 MR. RAMIREZ: Let's go back here.

23 MR. BRESSETTE: Dan from Alliance to Save  
24 Energy.

25 MR. ROSENSTOCK: Steve Rosenstock, Edison

1 Electric Institute.

2 MR. STARR: Louis Starr, Northwest Energy  
3 Efficiency Alliance.

4 MR. WEEMS: Michael Weems, American Lighting  
5 Association.

6 MR. VUCOVICH: Joe Vucovich, National  
7 Resources Defense Counsel.

8 MR. RAMIREZ: And, just let me do a quick  
9 check. Dave, how did that sound on the mikes for  
10 those folks in the back?

11 MR. GATTO: Good, they came through.

12 MR. RAMIREZ: Okay, and then I guess the  
13 first row in the back without the table tents.

14 MR. SILVERMAN: Bryan Silverman, Lubin Olson  
15 and Niewiadowski.

16 MR. ELDER: Rich Elder, Lubins.

17 MS. LEVIN: Rachael Levine, Energy  
18 Solutions.

19 MR. COOPER: Mark Cooper, Consumer  
20 Federation of America.

21 MR. RAMIREZ: And, was there anyone else in  
22 the back there? Is that it?

23 MS. CONWAY: Naeema Conway, Department of  
24 Energy.

25 MR. RAMIREZ: Okay, the folks that are in

1 the back that you don't have a mike, it sounds like it  
2 was picking it up fairly well. But if you are going  
3 to make any comments, just make sure that you speak  
4 up. As far as the role of the facilitator goes, when  
5 we're doing the actual regulatory negotiations, our  
6 involvement seems to be a lot more robust. As far as  
7 for today goes, we're really going to be managing  
8 time. That's really it, walking through the agenda,  
9 jump in every now and then if we need to figure out  
10 orders of things. But really, today, it's going to be  
11 time management. So I would ask that you all be very  
12 concise with your comments.

13 As far as ground rules go, all the ground  
14 rules are going directly towards that time management.

15 Most of them are things that you should know already,  
16 right, and be respectful. Speak one at a time. The  
17 one thing I would ask, though, is that when you do  
18 talk, any time that you speak, most of you are  
19 professionals, you've been through this before. But  
20 kind of gets annoying that you have to say your name  
21 every time before you speak. But, we're going to ask  
22 that for the record. So, any comment at all, make  
23 sure that you state your name and then proceed.

24 As far as folks that are on the webinar  
25 there online, what I'm going to ask is that you raise



1 your hand if you want to make any comments. Part of  
2 what we're going to do is that we'll capture the folks  
3 here in the room. And then, periodically we'll look  
4 to see if there are any hands raised for the different  
5 sections. And that goes for opening comments, as  
6 well. If you are interested in making opening  
7 comments, raise your hand and we will do the opening  
8 comments, give you an opportunity to do so. Are there  
9 any additional ground rules apart from what was up on  
10 the list here, that you think that we would need to  
11 add?

12 (No response.)

13 MR. RAMIREZ: Okay, keep it simple, right?  
14 All right, so as far as the agenda goes, this first  
15 hour, we want to do all our little logistics here, but  
16 then also opening statements. Can I get an idea of  
17 how many folks plan to make an opening statement?  
18 One, two, three, four, five, six, seven, eight.

19 MR. NUNEZ: It's seven, it's seven.

20 MR. RAMIREZ: Okay, any hands online for  
21 opening statements?

22 FEMALE VOICE: No.

23 MR. RAMIREZ: Okay, so now I know we have,  
24 there's lots more people in the room. And if you do  
25 the math on that, ten people, approximately making

1 opening statements, that's going to be a chunk of  
2 time, right? So, what I'm going to ask is that you  
3 try to very concise with your opening statements. No  
4 more than five minutes. If you have additional  
5 information that you want to submit, you could give it  
6 to us, we'll put on the record or put it into the  
7 docket. We will make sure that information gets out  
8 there. The biggest challenge as facilitator that  
9 we're going to have is to make sure that everyone has  
10 the opportunity to contribute, those that want to  
11 contribute. We really want to give everyone that  
12 opportunity to give the comments. DOE wants those  
13 comments. But we also need to make sure that we get  
14 through the entire agenda and give everyone that  
15 opportunity. So, five minutes or less when we get to  
16 that point.

17 Then we have some overview slides. And  
18 then, the comment period, we're going to be mixing  
19 that up a little up between the overview slides and  
20 then some of the issue boxes that are at the end of  
21 the presentation. And then we're going to try to save  
22 the last 30 minutes for any general questions and  
23 closing remarks. As far as the comments go, DOE  
24 welcomes comments on data, information that are  
25 concerning the GSL's. There are going to be a number

1 of issues and once we get to the agenda overview,  
2 you'll see the different issues that are outlined.  
3 And then at the very end, there's a series of comment  
4 boxes. And if there are comments that are in addition  
5 to, or that may not be covered in one of those issue  
6 boxes, we're going to try to save time for just  
7 general comments that you all have that haven't been  
8 covered in the outline that we've provided. There is  
9 also, here's the information to submit any additional  
10 comments. And what we're going to do is, we're going  
11 to keep this slide up during the breaks, during lunch,  
12 and then at the end of the day. So don't feel rushed  
13 right now that you have to try and capture this  
14 information. We'll make sure that it's up there for  
15 you to do so.

16 Now, as far as opening remarks go, it looked  
17 like there was about ten hands and what I'm going to  
18 do, is I'm just going to go in order here. And you  
19 don't have to take the full five minutes. But if you  
20 need the five minutes, please do so. We brought the  
21 hooks, so we'll pull you in if we need to at the end  
22 of that time. So, Alex, I believe you had your hand  
23 up? No? Noah?

24 MR. HOROWITZ: Yes.

25 MR. RAMIREZ: Okay.

1 MR. HOROWITZ: Don't start the clock yet.

2 (Laughter.)

3 MR. HOROWITZ: Good morning, my name is Noah  
4 Horowitz, and I'm a senior scientist at the Natural  
5 Resources Defense Council, a leading environmental  
6 advocacy group with over three million members and  
7 electronic activists. I thought I'd start my comments  
8 by trying to put the impacts of the DOE efficiency  
9 standards for general service lamps or everyday  
10 lightbulbs into perspective. Quite simply, these  
11 standards represent the single biggest energy savings  
12 of any energy efficiency standard ever set by the  
13 Agency in the entire 40-plus year history of the  
14 Appliance Standards Program. The DOE's Notice of  
15 Proposed Rulemaking or NOPR, the Agency is proposing  
16 to withdraw the updated definitions of GSL's contained  
17 in the final rules published by DOE in 2017.

18 This will impede the orderly phase-out away  
19 from inefficient light bulbs that Congress required to  
20 occur by 2020. Should DOE adopt its' February 2019  
21 proposal, it'll result in massive lost energy savings,  
22 consumer harm and damage to the environment. Per  
23 estimates from the Appliance Standards Awareness  
24 Project, the rollback will cost consumer \$12 billion  
25 more on their annual utility bills, cause 25 more

1 coal-burning power plants worth of additional annual  
2 electricity consumption. And that will result in 34  
3 million additional tons of climate-changing CO<sup>2</sup>  
4 emissions.

5           Simply stated, this is a bad deal for  
6 consumers in businesses, a bad deal for the  
7 environment, a bad deal for the electric utilities who  
8 are counting on these significant savings in their  
9 generation planning. And it's also a bad deal for the  
10 retailers and manufacturers who are harmed by the  
11 additional uncertainty DOE's actions and inactions are  
12 causing.

13           Besides being unlawful, as I will discuss  
14 momentarily, this action is completely unnecessary  
15 given the current wide availability, excellent  
16 performance and cost effectiveness of energy saving  
17 LED bulbs that easily meet the 45 lumen per watt  
18 minimum standard today. And as an additional point of  
19 reference, the European Union and its 28 countries,  
20 have already completed their phase end of inefficient  
21 light bulbs. And that ended in September 2018. And  
22 the scope is quite broad and includes exactly the type  
23 of bulbs that DOE's now attempting to exclude.

24           Why then, is DOE working so hard to preserve  
25 the ongoing sales in the US of such an inefficient set

1 of products? Nowhere else can our nation achieve such  
2 massive energy savings, almost overnight, when the new  
3 product uses four to six times less energy than the  
4 product it replaces. For example, the LED lamp that  
5 replaces the old 65-watt incandescent reflector lamp,  
6 uses less than 10 watts to produce the same amount of  
7 light.

8           While NRDC will be providing more detailed  
9 written comments and additional legal analysis to the  
10 docket, I thought it'd be useful to summarize our  
11 attorney's legal position of DOE'S NOPR at a high  
12 level. First, the backstop specified in EISA, has  
13 been triggered. And the minimum standard of 45 lumens  
14 per watt is effective as of January 1, 2020 as stated  
15 in the statute.

16           I also want to note that due to the unique  
17 structure of EISA, this is a sales prohibition,  
18 meaning retailers may not sell through their existing  
19 inventory of non-compliant products after that date.  
20 Secondly, DOE's proposed rollback of the 2017 final  
21 definition rules, is unlawful for the anti-backsliding  
22 provisions and for other reasons. Full stop. Should  
23 DOE proceed with the proposed rollback of the  
24 definition, NRDC and others will almost undoubtedly  
25 pursue litigation to overturn it. We are committed to

1       pursue all means available to defend the standards and  
2       to ensure they're being enforced.

3               A quick word about retailer impacts. Much  
4       of the language of the NOPR refers to retailer  
5       uncertainty and impacts. Make no mistake, DOE's  
6       proposal creates more rather than less uncertainty.  
7       Retailers who choose to keep buying incandescent and  
8       halogens that don't meet the 45 lumen per watt minimum  
9       are at risk of future liability if they keep offering  
10      them for sale after January 1, 2020. We also found it  
11      puzzling that the NOPR focused almost exclusively on  
12      retailer impacts, yet fails to discuss or ask any  
13      questions about the afore-mentioned energy in consumer  
14      savings, environmental benefits or impacts on  
15      manufacturers, many of whom have already invested  
16      millions in developing energy saving LED bulbs and  
17      they've started to ramp down their incandescent  
18      production. A rollback of the definitions will harm  
19      those manufacturers and retailers who've been gearing  
20      up with LED products for the January 1, 2020 effective  
21      date.

22              And to put all this into perspective, the  
23      proposed rollback of the updated 2017 definition  
24      impacts the bulbs that go into 2.7 billion sockets, or  
25      almost half of all the residential sockets in the US.

1 This is a very big deal, and not some semantical  
2 argument about definitions. The rollback impacts very  
3 popular lighting products commonly used for general  
4 illumination throughout our homes, including reflector  
5 bulbs used in recessed cans and track lighting,  
6 candelabra or flame-shaped bulbs used in chandeliers  
7 and sconces, round globe bulbs and three-way bulbs.  
8 Contrary to what you may hear from NEMA and some of  
9 its members today, these are everyday bulbs and not  
10 some sort of niche or specialty bulb.

11 In closing, we urge DOE not to move forward  
12 with its proposed rollback of the 2017 GSL  
13 definitions. And we appreciate the opportunity to  
14 provide these introductory remarks. Thank you.

15 MR. RAMIREZ: Man, did you rehearse that?

16 MR. HOROWITZ: I did.

17 MR. RAMIREZ: That's spot on, thank you.

18 (Laughter.)

19 MR. HOROWITZ: 5.01 minutes.

20 MR. RAMIREZ: Chris?

21 MR. GRANDA: Good morning, my name is Chris  
22 Granda and I'm a Senior Researcher Advocate with the  
23 Appliance Standards Awareness Project. For 20 years,  
24 ASAP has promoted mandatory minimum energy efficiency  
25 standards at both US federal and state levels. ASAP



1       opposed DOE's GSL NOPR published on February 11<sup>th</sup>, 2019  
2       and I'd like to explain why in three brief points.

3               The first is that this proposal would be  
4       very costly to consumers. I checked on the Home Depot  
5       website earlier this week and the prices of LED bulbs  
6       have now dropped so far that in LED energy savings  
7       pays back the slight price premium over the equivalent  
8       halogen bulb in less than one year. Because LED's 15  
9       to 20 times as long as halogens, this means that LED's  
10      are now much, much less expensive to own and use than  
11      halogen or incandescent bulbs. LED lightbulbs make  
12      lighting more affordable. But we know that without  
13      standards, incandescent and halogen bulbs will persist  
14      in the market for many years.

15             This market behavior is nothing special.  
16      It's well understood and applies to many types of  
17      products. And we will support our analysis of that in  
18      our written comments. If DOE withdraws this NOPR,  
19      ASAP estimates that by 2025 the 45 lumen per watt GSL  
20      standard will save the average US household about \$180  
21      per year. Now that's equivalent to about 12 percent  
22      of the average annual residential electricity bill.

23             There's six billion light bulbs in use in the  
24      US and the light bulb standards will put \$22 billion  
25      back into Americans' pockets. There's also a large

1 cost to the environment, of course. This NOPR would  
2 cause the emission of an additional 60 million metric  
3 tons carbon dioxide.

4 My second point is that what DOE is  
5 proposing is an illegal change to regulation. This  
6 NOPR frankly is poorly conceived. And a final rule  
7 that seeks to implement these changes to regulation  
8 would be illegal. If DOE issues such a final rule, we  
9 believe that would eventually be overturned in court.

10 Some of the other speakers this morning will describe  
11 this legal vulnerability in greater detail. The NOPR  
12 also lacks clarity, lacks transparency and contains  
13 errors in its analysis. As my colleague, Mr.  
14 Horowitz, mentioned perhaps the most serious flaw is  
15 that it lacks any consideration of the impact of the  
16 impact of the NOPR on consumers. We'll describe these  
17 shortcomings more fully in our written comments as  
18 well.

19 Third point is DOE's NOPR injects  
20 uncertainty into a lighting market that's already  
21 strained by rapid change. Written comments on this  
22 NOPR are due by April 12<sup>th</sup>. Based on past experience,  
23 we expect DOE to issue a final rule sometime in late  
24 summer or early fall. If the final rule is similar to  
25 the proposed rule as you've heard from two speakers so

1 far this morning, we are confident that the final rule  
2 will be quickly challenged in court. This legal  
3 challenge will not be resolved until sometime in 2020  
4 at the latest, I'm sorry at the earliest. Retailers  
5 are deciding now about bulbs to order for early next  
6 year and must place those orders by around July. This  
7 means that retailers will not know whether the light  
8 bulbs they have ordered will be legal to sell when  
9 they get to the stores.

10 If DOE believes that it has a compelling  
11 rationale for rescinding the January 19, 2017 GSL  
12 Definition Final Rules, why did the Agency wait almost  
13 two years to propose this? This NOPR feels less like  
14 a carefully considered policy, than de-regulation for  
15 the sake of de-regulation.

16 If a court overturns the Final Rule or the  
17 2020 presidential election results in a new  
18 administration, retailers could suddenly find  
19 themselves subject to substantial fines with  
20 warehouses full of non-compliant, unsellable  
21 inventory.

22 To recap, DOE's GSL NOPR will decrease the  
23 benefits from the transition to solid state lighting  
24 to consumers and to the economy as a whole, making  
25 lighting less affordable. This NOPR proposes an

1 illegal change in regulation that will be challenged  
2 in court and likely overturned. And the NOPR adds  
3 uncertainty in a rapidly changing lighting market,  
4 uncertainty that benefits no one. We ask DOE to  
5 withdraw this NOPR and to confirm that it will enforce  
6 the January 1<sup>st</sup>, 2020 compliance date for the 45 lumen  
7 per watt GSL standard. Thank you for your attention.

8 We look forward to participating in the hearing and  
9 I'll also be submitting written comments.

10 MR. RAMIREZ: Okay, great, thank you. Who  
11 was next that had their hand up? Okay, yeah, go ahead  
12 then.

13 MR. ZIMMERMAN: Hello, my name is Scott  
14 Zimmerman and I have over 30 years and 85 issued US  
15 patents in the field of lighting and displays. I  
16 recently co-authored with Professor Reiter, Melatonin  
17 and the Optics of the Human Body, that just published  
18 in *Melatonin Research*. The work for the first time  
19 quantifies the distribution of free radicals generated  
20 in natural and artificial light sources in the human  
21 body. The sheer fact that I of all people would be  
22 the first to run such a model should be of concern to  
23 this committee. In a nutshell, the work indicates  
24 that visibly-only emitters, LED's, OLED's and CFL's  
25 generate much higher levels of oxidated stress in our

1 cells than previously thought. Not just because of  
2 what they emit, but mainly because of what they do not  
3 emit.

4           We now know that the human body uses the  
5 near-infrared in a series of amazing biological  
6 mechanisms to protect us from UV invisible that we  
7 need to generate Vitamin D into C. In nature we are  
8 always exposed to an excessive of near-infrared  
9 photons, compared to UV invisible photons.  
10 Unfortunately, visible-only emitters, LED, OLED's and  
11 CFL's do not provide this protection. It can be shown  
12 that the fetus' eye, skin and brain all use near-  
13 infrared in ways that have not been considered by the  
14 lighting industry or this committee.

15           Circadian represents only one of many  
16 bioloical processes at play in the human body, the  
17 majority of which occur in the near-infrared. The  
18 optical design of the body collects in localized near-  
19 infrareds in the eye, brain and skin. The amniotic  
20 fluids surrounding the fetus has its peak transmission  
21 at 850 nanometers in the near-infrared. And research  
22 indicates that near-infrared expresses the same  
23 proteins and amniotic fluid that has been shown to  
24 increase the risk of autism.

25           The eye blocks UV attenuates visible and

1 collects near-infrared, such that 90 percent of the  
2 photons hitting the retina do not go through the  
3 pupil, but instead go through the eye in sclera. The  
4 cerebral spinal fluid surrounding the brain acts as a  
5 light guide to funnel near-infrared into the fissures  
6 of the brain, flooding the gray matter with near-  
7 infrared.

8           This correlates with daylight studies  
9 showing that children learn better under natural  
10 sunlight, which is predominantly near-infrared. In  
11 recent ABCD studies indicating a thinning of the  
12 cerebral cortex under visual only stimulation. In  
13 general research indicates that the lighting industry  
14 and this committee should take a step back and  
15 reconsider the liability, risks and the public health  
16 issues associates with visible-only emitters.

17           I am not suggesting that we abandon LED's,  
18 but suggest that the lighting industry bears a  
19 responsibility to the public to make sure that this is  
20 not another good intention, incomplete science  
21 scenario. Like Roundup and Asbestos, the lighting  
22 industry and this committee bears an additional burden  
23 of proof that has not been met before we universally  
24 eliminate 70 percent of the spectral content from our  
25 lives.

1                   For those of who cling to the absurd notion  
2                   that artificial lighting is benign, please take the  
3                   time to run the numbers in your models, most of which  
4                   can be done in an Excel spreadsheet. Recent research  
5                   supports the premise that a direct link exists between  
6                   visible-only emitters, LED's, OLED's and CFL's and  
7                   autism, myopia, AMD and dementia. This is supported  
8                   by over 4,000 peer reviewed papers and the medical  
9                   industry on the area of the near-infrared photo  
10                  therapy.

11                  I do not make this statement lightly as it  
12                  carries huge health and legal consequences to the  
13                  industry. As an inventor, I can assure you there are  
14                  a multitude of solutions that include LED's, but also  
15                  include low intensity, thermo, and near-infrared  
16                  sources where we still attain lumens per watt  
17                  efficiencies up to 100 lumens per watt.

18                  However, this committee has become a  
19                  roadblock to innovation based on its actions. I  
20                  respectfully request that you consider that we may  
21                  need to change course and allow alternate approaches  
22                  to be used.

23                  What the research indicates is that pregnant  
24                  women, young children, elderly and certain ethnic  
25                  groups are put at the most risk and warning may be

1       necessary for these groups. Ironically, for the last  
2       60 years the negative aspects of fluorescents have  
3       been mediated by the widespread usage of incandescent  
4       bulbs in our homes. Mandating visible-only emitters  
5       widespread usage low heat glass blocking near-infrared  
6       in skin cancer concerns have created a perfect storm  
7       eliminating unfortunately all near-infrareds from  
8       artificial environment where we now spend 90 percent  
9       of our time. This is leading to unintended health  
10      consequences that the public does not deserve.

11               Thank you.

12               MR. RAMIREZ: Great, all right, I really want  
13      to thank everyone for being very good with the timing.  
14      I really appreciate that. All right, so who's next?  
15      Richard?

16               I'm sorry, Don did you want to give comment  
17      as well?

18               MR. BRUNDAGE: Just briefly.

19               MR. RAMIREZ: Okay.

20               MR. BRUNDAGE: Don Brundage, Southern  
21      Company, I'm supportive of the proposed NOPR. I feel  
22      that the previous NOPR expanding the definition of  
23      general service lighting was over-reached when  
24      Congress set the backstop rule. It was for general  
25      purpose lighting, as it was defined at that time.



1       Some of the things said by some of the other speakers  
2       today, I do not agree with, that -- for one thing,  
3       we're only talking about a definition study. We're  
4       not talking about the backstop rule and whether it  
5       would be implemented. That's a topic for another  
6       meeting.

7               And market forces are moving strongly  
8       towards LED. These claims of massive energy savings  
9       from a backstop rule, I suspect that the actual  
10      savings would be a small fraction of that because so  
11      much of the market has already gone to LED's because  
12      of the obvious economic advantages mentioned.

13             And as an electric utility, when you're  
14      saving coal burning power plants -- I'm not aware of  
15      any coal-burning power plants under construction  
16      anywhere in the country right now. And my own company  
17      is, in the past three months, made proposals to shut  
18      down nearly two million KW of coal-burning power  
19      plants. So a comparison of light bulbs to coal-  
20      burning power plants is simply a false comparison,  
21      thank you.

22             MR. RAMIREZ: Thank you. Patrick?

23             MR. SAXTON: My name's Patrick Saxton. I'm  
24      an electrical engineer in the Appliances Office at the  
25      California Energy Commission. We appreciate the

1 opportunity to provide an opening statement to the  
2 DOE's NOPR for General Service Lamps. The Energy  
3 Commission's the primary energy policy and planning  
4 agency of the State of California. The Energy  
5 Commission and DOE share many similar mandates. One  
6 of the chief mandates of the energy commission is to  
7 reduce wasteful, uneconomic, inefficient and  
8 unnecessary consumption of energy in the state by  
9 prescribing standards for minimum levels of operating  
10 efficiency for appliances that consume a significant  
11 amount of energy on a statewide basis.

12 Appliance standards mandating high efficacy  
13 replacement lamps such as CFL's and LED's are some of  
14 the most cost-effective regulations with the largest  
15 consumer and statewide energy and monetary benefits  
16 that California has ever adopted. The Energy  
17 Commission set the first standards in the nation per  
18 traditional A-shape incandescent lamps in 2006.

19 In 2007, the California legislature required  
20 the Energy Commission to adopt minimum energy  
21 efficiency standards for general purpose lighting in  
22 order to reduce average statewide electrical energy  
23 consumption by at least 50 percent for indoor  
24 residential lighting and 25 percent for indoor  
25 commercial lighting. Later that year, the Energy

1 Independence and Security Act, or EISA, set forth a  
2 mandate for the orderly implementation of increasingly  
3 stringent standards for light bulbs.

4 In 2008, the Commission adopted regulations  
5 that aligned with Tier I and Tier II lamp requirements  
6 in EISA, effective earlier than Federal standards as a  
7 result of preemption exceptions for California. The  
8 Tier II standards, which set a 45 lumen per watt  
9 performance requirement for light bulbs, became  
10 effective for lamps manufactured on or after January  
11 1, 2018 and sold or offered for sale in California.

12 This standard became effective because the  
13 backstop provisions in federal law were triggered  
14 through DOE's inaction in setting standards for these  
15 lamps. The National Electrical Manufacturer's  
16 Association, or NEMA, initiated a legal challenge in  
17 2017 to California's lighting standards, including the  
18 Tier II general service lamp standards.

19 However, after NEMA lost its motion for  
20 judgement on the pleadings, NEMA withdrew its  
21 complaint and the standards took effect as scheduled  
22 on January 1, 2018. The Energy Commission strongly  
23 opposes this NOPR to withdraw the definitions for  
24 GSIL's, GSL's and other supplemental definitions  
25 because the backstop provisions in 42 U.S.C.

1       6295(i)(6)(v) have been triggered, the proposed  
2       withdrawal of the definition is unlawful because it  
3       constitutes backsliding. The vast majority of lamps  
4       falling under the revised definitions are readily  
5       available with light sources that easily achieve a  
6       minimum efficacy of 45 LPW.

7               For any lamps not readily available,  
8       production of lamps achieving this minimum efficacy is  
9       clearly technically feasible. Hardly a week goes by  
10      without the solid state lighting industry introducing  
11      an innovative lighting product that combines an LED  
12      light source and novel optics or form factor. The  
13      industry is so good at this that the traditional form  
14      factors or lamp shapes could likely be eliminated  
15      except for consumers' desire for visual replication of  
16      traditional lamp shapes. Maintaining the revised  
17      definitions would save billions of dollars, billions  
18      with "B" of dollars on utility bills and avoid 27  
19      quads full fuel cycle of electricity consumption.  
20      Nearly all of the lamps which would be treated as  
21      GSL's under the revised definitions, have extremely  
22      short paybacks, many less than one year.

23              Withdrawing the proposed definitions now,  
24      ten months away from the effective date of a standard,  
25      only serves to harm manufacturers and retailers who

1 dutifully planned for implementation and may now have  
2 to eat that investment because of fickle DOE  
3 policymaking.

4           It harms innovative industry leaders who  
5 invest in and manufacture LED products by forcing them  
6 to compete with industry laggards who will not adapt  
7 to changing times and who would be protected by DOE's  
8 backward policy direction. It harms consumers who are  
9 faced with a confusing lighting market that makes this  
10 high efficacy and energy-saving LED's with low  
11 efficacy cheap incandescent and halogen, with higher  
12 upfront costs for LED's that result from the  
13 regulatory uncertainty caused by DOE's inability to  
14 meet EISA's requirements.

15           The revised definitions that effectively  
16 expand the scope of the GSL Standard due to the  
17 backstop represent an immense financial and energy-  
18 savings opportunity for consumers that is technically  
19 feasible and extremely cost effective.

20           DOE should rescind or modify the NOPR  
21 seeking to withdraw the revised definitions of GSIL's,  
22 GSL's and other supplemental definitions on order to  
23 preserve these historic savings. To do otherwise  
24 reaches into the pocket of US citizens and takes money  
25 from them. The Energy Commission will be submitting

1 more detailed written comments by the April 12<sup>th</sup>  
2 deadline.

3 MR. RAMIREZ: Great, thank you. You were  
4 making me nervous there, Patrick. But you hit the  
5 mark. Okay, thank you.

6 Who's next? Oh, go ahead, Mary.

7 MS. ANDERSON: Hi, this is Mary Anderson  
8 with Pacific Gas and Electric. One of the utilities  
9 that has counted on these savings for our grid  
10 planning, I'm here to advocate for cost-effective  
11 standards and promote energy-efficient technologies in  
12 the interest of rate fares and consumers, especially  
13 those lower-income consumers that will be harmed by  
14 this NOPR.

15 This NOPR is overall counter-productive and  
16 sets damaging precedent that unlawful political and  
17 legal stalling tactics may impinge on decades of  
18 progress towards cost-effective regulations that lead  
19 to positive social and economic impacts that are  
20 beneficial to all US consumers. The proposal in this  
21 NOPR, if finalized and left unchallenged, would set a  
22 precedent for any DOE final rule in any product  
23 category or rulemaking that they are not in fact  
24 final. This would create perpetual uncertainty among  
25 stakeholders and damage any efforts for regulators in

1 the industry to collaborate.

2 When challenged in court, ongoing litigation  
3 will create further uncertainty. This NOPR is  
4 advocated by only a portion of the manufacturing  
5 community. This NOPR contains billions of dollars in  
6 consumer savings and channels a small portion towards  
7 manufacturers who will continue to sell low efficacy  
8 lighting despite the last 12 years of market signals  
9 indicating that low efficacy lighting will be phased  
10 out by 2020. While we do not represent or speak for  
11 manufacturers, we caution against accepting this  
12 short-sighted advocacy of one segment of the  
13 manufacturing community as representing either, one,  
14 the position of all manufacturers or, two, the best  
15 interests of American industry.

16 The definitions that the NOPR would roll  
17 back represent positive progress to consumers and  
18 other market participants. It diverts burdens towards  
19 consumers, retailers and utilities and rewards certain  
20 industry players at the expense of innovators.  
21 Congress mandated that any lighting used in general  
22 service applications be subject to a 45 lumen per watt  
23 backstop. The national ban on sales of low efficacy  
24 lighting by January 1<sup>st</sup>, 2020. Therefore, any activity  
25 that creates uncertainty as to which lamps are general

1 service and therefore subject to the backstop, puts  
2 retailers at risk of amassing inventory that can no  
3 longer be moved or sold. In this way, this NOPR  
4 creates an enormous economic waste. DOE should not  
5 adopt the changes proposed in this NOPR. Thank you.

6 MR. RAMIREZ: Great, thank you Mary. Tim?

7 MR. BALLO: Good morning, I'm Tim Ballo with  
8 Earthjustice.

9 Let me begin acknowledging the Department's  
10 choice to devote resources to this exercise. Since  
11 January 2017 DOE has missed more than a dozen energy  
12 conservation standards and test procedure rulemaking  
13 deadlines established by statute. Yet, rather than  
14 meet those legal obligations, or at least minimize the  
15 duration of its violations, the Department is  
16 misallocating staff time, attempting an unlawful  
17 rollback of a lawfully promulgated expansion in the  
18 scope of the energy conservation standards for general  
19 service lamps.

20 The proposed rule suggests this action could  
21 reduce uncertainty for retailers. That is incorrect.  
22 The lawfully promulgated definitions that the  
23 Department is seeking to change are not subject to  
24 further judicial review. The only petition for review  
25 challenging those regulations has been dismissed at



1 the Petitioner's request. In contrast, repeal of  
2 those definitions will likely be challenged in court.  
3 Pressing ahead with the proposed action will force  
4 retailers to gamble on that judicial outcome.

5 Moreover, the standard that all general  
6 service lamps sold at retail must meet, beginning on  
7 January 1<sup>st</sup>, 2020 is equally clear, 45 lumens per watt.

8 The Department is without authority to apply a weaker  
9 standard to any general service lamp, to the extent  
10 manufacturers and retailers may anticipate receiving a  
11 free pass from the Department, please observe that  
12 Section 334 and 335 of the Energy Policy and  
13 Conservation Act provide for vigorous enforcement by  
14 states and indeed by any person.

15 Finally, I wanted to note at the earliest  
16 possible opportunity that the categorical exclusion  
17 determination for this action, perhaps the one that  
18 briefly appeared on the Department's website last  
19 summer and then went away, is not available at the  
20 internet address indicated in the Federal Registered  
21 Notice for this proposed action. Thank you for the  
22 opportunity to speak today. I'll provide further  
23 details in written comments.

24 MR. RAMIREZ: Okay, thank you Tim. If it's  
25 all right, I'll skip the Department and I'll just come

1 back at the end, in the back?

2 MR. SILCOX: Good morning, Clark Silcox for  
3 the National Electrical Manufacturer's Association.

4 NEMA appreciates the opportunity to make  
5 brief comments at this public meeting on the Notice of  
6 Proposed Rule. First, we support the Department's  
7 decision to align its definitions with the scope of  
8 the products directed by Congress to be regulated as  
9 general service incandescent lamps and general service  
10 lamps. It's no secret that NEMA believes the  
11 Department's January 1<sup>st</sup>, 2017 definitions were illegal  
12 and went far beyond what Congress intended. For this  
13 rulemaking through the text of the statute, we've  
14 given our reasons and our interpretation of the  
15 statute in prior comments and we will not take up  
16 further time here on the subject.

17 But on the topic of backsliding that might  
18 be triggered by this NOPR, I'll just add that the  
19 government cannot illegally backslide from a point  
20 that it could not stand upon in the first place. And  
21 that's what's going on here. So there is no  
22 backsliding.

23 Second, by getting these regulatory  
24 definitions right, the Department will reduce  
25 regulatory uncertainty, not only in the short run, but

1 in the long run. The tenor of the Department's notice  
2 showed that there was considerable anxiety in the  
3 retail sector about the lamp products in inventory.  
4 Approving the NOPR as a final rule resolved some of  
5 that anxiety. Third, NEMA's main ask during the  
6 rulemaking has always been that the DOE carry out what  
7 Congress asked the Department to do back in 2007, as  
8 reflected in the text of the statute. That remains  
9 our ask.

10 So that brings us to the issue that DOE has  
11 now stated it will address in the future, DOE's  
12 determinations on standards for various lightbulbs.  
13 DOE has not yet adopted any new or amended standards  
14 applicable to general service incandescent lamps,  
15 CFL's, general service LED's or other lamps. We have  
16 wanted DOE to get there sooner, both in the past and  
17 now. And we ask that DOE complete this rulemaking  
18 with all deliberate speed in accordance with the law.  
19 Just as the market needs clarity with respect to the  
20 scope of general service lamp standards for the  
21 definition, the market also needs clarity with respect  
22 to the standards themselves.

23 DOE proposed a few standards during this  
24 rulemaking back in 2016 and then got sidetracked when  
25 it turned its resources to redefine the general

1 service lamp. But a lot has changed in the market for  
2 general service lamps since 2016. Most of the energy  
3 savings that DOE might have envisioned from regulating  
4 general service lamps back in 2015 or 2016, has  
5 occurred in the meantime without federal regulation,  
6 and that trend will continue. Data from even 2015 is  
7 outdated and obsolete. In 2015 the general service  
8 LED lamp was way behind the CFL and halogen  
9 incandescent lamp in terms of shipments and installed  
10 sockets. In just four short years, this situation has  
11 totally reversed. And shipments of general service  
12 LED lamps far exceed the total shipments of the other  
13 two lamps combined.

14 DOE's technical support document issued in  
15 connection with its 2016 Standards NOPR, predicted  
16 that DOE regulations would make the general service  
17 LED lamp the dominant lamp in the general service lamp  
18 category in 2020. In reality, the general service LED  
19 lamp became the dominant lamp in that category in the  
20 third quarter of 2017 without any regulation. NEMA  
21 forecasted in early 2016 during this rulemaking that  
22 shipments of CFL's would fall significantly toward  
23 zero in the coming years and they have. And that's  
24 coincided with the dramatic rise of general service  
25 LED lamp shipments beginning in 2017 and continuing

1 significant decline in halogen incandescent lamp  
2 shipments. To give the public a rough idea of the  
3 magnitude of the general service lighting  
4 transformation, consider the following.

5           There were between 1.7 and 1.8 billion units  
6 of general service incandescent lamps shipped in the  
7 US in the year 2001. There was a very small number of  
8 CFL's shipped during 2001, under 100 million units,  
9 which was less than 6 percent of all general lamp  
10 shipments at that time. While we do not have final  
11 data yet for 2018, there is every indication that the  
12 number of general service incandescent lamps shipped  
13 in 2018, will be less than 15 percent of that shipped  
14 in 2001.

15           Since 2014, the number of GSIL shipments as  
16 a category has itself fallen by half. And there's no  
17 reason to believe these trends will not continue.  
18 Congress didn't see this coming in 2017 when it  
19 enacted EISA. And frankly, neither did the lamp  
20 manufacturing industry. Our best estimate right now  
21 is that the general service incandescent lamps occupy  
22 about 25 percent of the general service lamp sockets,  
23 maybe less. That's down from almost 100 percent to  
24 2001.

25           So what this rulemaking will ultimately

1       decide is what should the federal government do about  
2       the remaining 25 percent of the general service  
3       incandescent lamp sockets? There are some who would  
4       argue the DOE should kill off that product next year.  
5       There are others who probably would argue just to let  
6       consumer choice in the market rule and will eliminate  
7       the GSIL on its own in a rapid period of time.

8               EPCA provides the Secretary with a number of  
9       regulatory options in between both of those two poles.  
10      Lighting manufacturers are first and foremost very  
11      competitive. And it is that competition to satisfy  
12      consumer demand that has been driving the market  
13      transformation I just described. Significant advanced  
14      notice of government regulatory action and planning is  
15      important to that competition.

16             There's also the fact that the general  
17      service incandescent lamp is still made in the United  
18      States and the two factories employing several hundred  
19      people in Ohio and Pennsylvania are working through  
20      this transition. One of those plants has recently  
21      begun producing LED lightbulbs.

22             As the Secretary of Energy considers its  
23      legal obligations under the statute, the Secretary  
24      should consider not only how far the competitive  
25      market has already come on its own, but the prospects

1 forward and adjustments to be made to rationalize  
2 continuing manufacturing in the United States. NEMA  
3 supports the nation's efforts to transition to the  
4 energy efficient lighting and our members are proud to  
5 have greatly contributed to that transition already.  
6 We will submit more detailed comments next month.

7 Thank you.

8 MR. RAMIREZ: Thank you Clark. Anyone else  
9 in the back? Okay, go ahead.

10 MR. COOPER: Mark Cooper, Consumer  
11 Federation of America.

12 MALE VOICE: Microphone?

13 MR. RAMIREZ: Yeah, I'm sorry.

14 MR. COOPER: Never had that problem before,  
15 but okay. Mark Cooper, Consumer Federation of  
16 America.

17 I'll make five points which we'll elaborate  
18 in our formal comments. The simple message is that  
19 the attack on efficiency standards is wrong, imposing  
20 billions of dollars of unnecessary costs on consumers  
21 and the economy. In fact, our analysis shows that  
22 this is single most important consumer pocketbook  
23 issue that most policy makers will actually face.  
24 It's a huge issue.

25 My five points: First, consumers have

1 benefited enormously from appliance efficiency  
2 standards. We estimate that past appliance efficiency  
3 standards save consumers \$750 billion net of  
4 technology costs and environmental benefits. Current  
5 standards will save them an equal amount raising the  
6 total for standards that were on the books and  
7 implemented to \$1.5 trillion. And our analysis shows  
8 that future standards could save another \$1.2  
9 trillion. That's net of technology costs and not  
10 including environmental benefits. Believe me, the  
11 single most important benefit is the consumer  
12 pocketbook benefit followed by the macroeconomic  
13 stimulants.

14           Two, consumers are well aware and understand  
15 that even those standards may, only may, raise the  
16 costs of energy consuming durables, the value of  
17 energy savings vastly exceeds those costs. And so our  
18 public opinion polls show they actually get it. They  
19 support standards vigorously every time we ask them.  
20 And we've been doing that for 12 years. To the extent  
21 that energy efficiency standards affect durable goods  
22 that are used in commercial and industrial sectors,  
23 these are consumer issues. Who do you think pays the  
24 burden of excess costs, the tooth fairy? No, the  
25 consumer pays the costs of wasting energy and



1 production and distribution.

2 Fourth, we described the approach to  
3 standards being implemented across all agencies in  
4 light of the passage of the Energy Independent and  
5 Security Act as command but not control regulation,  
6 that's really important. Our analysis of standards  
7 has identified six characteristics of command but not  
8 control regulations. They should be one, technology  
9 neutral; two, product neutral. They should be three,  
10 moderately aggressive and progressive setting targets  
11 that, four, are responsive to consumer needs; five,  
12 are responsive to industry needs. This ensures that  
13 six, they will unleash market forces of competition  
14 and innovation around the standards. Well crafted  
15 standards create the direction and certainty that the  
16 industry then grabs. And having those standards is  
17 extremely important. The fact that the industry  
18 exceeds it, is wonderful because that's exactly what  
19 well-crafted standards are supposed to do.

20 Fifth, we believe that because standards are  
21 so good for consumers, Congress has an active  
22 legislation that requires these substantial benefits  
23 to be delivered to consumers. In the appliance space,  
24 they've actually set timelines which the government  
25 has almost never adhered to. In many cases, the

1     attack on efficiency standards are simply illegal. In  
2     some cases, the attack on efficiency standards  
3     violates the administrative procedures. Illegal or  
4     not, in all cases, the attack on efficiency standards  
5     is immoral. The effort to roll back standards will  
6     cost consumers dearly and they will be rejected by the  
7     public, every time the public gets a chance to express  
8     its' opinion, not only in opinion polls, but also in  
9     the polling booth.

10                 We have analyzed the full range of  
11     efficiency standards across all these consumer  
12     durables. We have shown in fact that each observation  
13     I made applies to lightbulbs. And in fact, in a  
14     certain sense, lightbulbs are extremely important and  
15     they shed a very strong light on these issues, pun  
16     intended. For the average consumer, about 10 percent  
17     of their electricity bill is involved in lighting.  
18     And these standards will lower that cost and you can  
19     tell me well, that's a small part. But it's all small  
20     parts that adds up to a very large, expenditure. The  
21     current definitions for general service lighting  
22     should be maintained. Therefore, the Department  
23     should withdraw its Notice of Proposed Rulemaking  
24     because that is in this interest of consumers, the  
25     economy and it has some environmental benefits too.

1 But the primary benefit is overwhelmingly for  
2 consumers and the economy. Thank you.

3 MR. RAMIREZ: Great, thank you Mark.

4 Anyone else in the back? Okay, Louis?

5 MR. STARR: Yeah, I assume everyone can hear  
6 me if I don't speak in a microphone?

7 MALE VOICE: No we didn't.

8 MR. STARR: So, my name is Louis Starr. I'm  
9 with Northwest Energy Efficiency Alliance. We are an  
10 organization that represents 140 utilities and have 12  
11 million customers. Obviously, we're not in favor of  
12 the change in definition from the 2016 to the current  
13 version. We see three main problems that this is  
14 going to create. The Northwest does a lot of  
15 planning. We plan in 5-year terms through the future  
16 through our power plants. And so, you know, part of  
17 this definition and the savings that we get are in our  
18 power plant and built in there. And so if that  
19 definition changes, it changes how we're going to do  
20 our planning and effects long-term planning for our  
21 energy use and where we're going to get it from.

22 Another aspect of this too, is that things  
23 that we were going to spend on, incentives and  
24 basically investments in getting other kinds of  
25 products that have efficiency gains, we now may have

1 to actually go back and incentivize lighting, that  
2 last 25 percent in order to get those savings, that we  
3 otherwise could spend on more cost-effective products.

4 And the last thing I'll say is that the  
5 regulatory uncertainty, you know, there's the  
6 regulatory uncertainty of the manufacturer but there's  
7 also the regulatory uncertainty that this produces  
8 with utilities. And I would think DOE should look at  
9 that factor as well. Thank you for your time.

10 MR. RAMIREZ: Great, thank you Louis. I  
11 believe that was it, correct? Okay, my last check  
12 online, there was nobody that had their hand up. But  
13 they have plenty of opportunity if we need to come  
14 back, we can come back and do that.

15 So what we want to do next is to start  
16 reviewing the agenda. And these are the items that  
17 we're going to cover. And the way that I'm going to  
18 do this is that, actually you know what? I take it  
19 back. Did the Department, do you have some comments  
20 you want to make? Okay, so quickly, so we set this  
21 up. The way we're going to do it, is the Department's  
22 going to go through each of these sections. And then  
23 I'm going to pause at the end of each one to see if  
24 there's any comment on it. But the way I want to do  
25 that is I want to try to limit the first round, very

1 similar to like we did here with opening statements  
2 where, two minutes, right? No more than two minutes  
3 on comments. And then we'll go through. If the  
4 comments are quick and we have more time, what we're  
5 going to do is a quick one-minute round to see if  
6 there's any responses to comments. And if there's  
7 still additional time after that, then we could have  
8 some general dialogue if we need it, right? But this  
9 way we could try to get through the entire agenda. Is  
10 that clear for everyone? Okay, all right. Great.

11 Yeah. Dan. Okay, I'm sorry.

12 MR. RAMIREZ: I'm sorry, I'm getting my  
13 glasses.

14 MR. RAMIREZ: Yeah, no, we're good. You're  
15 good to go.

16 MR. COHEN: Morning, thank you all for being  
17 here.

18 MR. RAMIREZ: And Dan, I think everyone  
19 knows you, but, if you don't mind.

20 MR. COHEN: I'm Dan Cohen, Department of  
21 Energy. So, first I want to start by going over some  
22 of the history at play here and much of it has been  
23 touched on and in the opening comments, just to set  
24 the framework for where we are in the rest of this  
25 discussion today.

1           The Energy Policy and Conservation Act which  
2       is the authorizing statute under which we operate for  
3       this particular program, adopted the definition of  
4       general service lamp as a statutory matter. And it's  
5       the definition on the board behind me, includes  
6       General Service Incandescent, GSIL's, for short that  
7       we've all come to know, and Compact Fluorescent Lamps,  
8       CFL's, and two different types of LED's, general  
9       service LED's and organic LED's.

10           And then there is, and I guess this is the  
11       issue that we're discussing today, this last portion  
12       of the definition, talks about any other lamps the  
13       Secretary determines are used to satisfy lighting  
14       applications traditionally served by GSIL's. The  
15       statute also very clearly says what the definition  
16       does not include, and that is lighting applications or  
17       bulb shapes excluded from the GSIL definition. And  
18       we'll get to that in a moment. General service  
19       fluorescent lamps and incandescent reflector lamps,  
20       those are explicitly excluded from being GSL as a  
21       statutory matter.

22           The statute also directed that DOE conduct  
23       two rulemaking cycles to evaluate the potential for  
24       standards for general service lights. The first  
25       rulemaking cycle was to be initiated no later than

1 January 1 of 2014 and the two questions the statute  
2 directed that we answer in that rulemaking were one,  
3 whether standards in effect for GSL should be amended  
4 to establish more stringent standards, right? And  
5 there were certain standards that were already in  
6 place because of the statutory definition for lamp  
7 types that were covered by the statute. And two, the  
8 Department was directed to determine whether  
9 exemptions for certain incandescent lamps should be  
10 maintained or discontinued based in part on sales  
11 data, on lamp sales for those particular types of  
12 lamps.

13 And in addition, the statute made clear that  
14 the first rulemaking cycle, the one that began in  
15 2014, wasn't limited to incandescent lamp technologies  
16 and had to consider this 45 lumen per watt standard  
17 for general service lights. So regarding question  
18 one, the statute says if the Secretary determines that  
19 standards in effect for GSIL's, not GSL, but GSIL's,  
20 particular type of GSL, if the Secretary determines  
21 that standards in effect for GSIL's should be amended,  
22 the Secretary has to publish a final rule not later  
23 than January 1, 2017 with an effective date that's not  
24 earlier than three years after the date on which the  
25 ruling is published.

1                   So there's two parts of that. There's an  
2    "if then". If the Secretary determines that the  
3    standards in effect for GSIL's should be amended then  
4    the Secretary shall publish a final rule. And then  
5    with the number of comments here this morning already,  
6    if DOE fails to complete a rulemaking in accordance  
7    with that criteria, or the final rule doesn't produce  
8    savings that is equal to or greater than 45 lumens per  
9    watt, then a backstop requirement kicks in. That sets  
10   a sales prohibition for lamps that are not better than  
11   45 lumens per watt.

12                  Typically, when the Department sets energy  
13   conservation standards, what the Department is setting  
14   is either a performance metric, some amount of input  
15   for output, or a design requirement. "The product  
16   shall not have" if it's a gas product, let's say a  
17   pilot light or something like that. So that's what we  
18   typically said. And that is based on a manufacture  
19   date and product that's manufactured before the date  
20   can continue to be sold, even if it doesn't meet the  
21   new standard, because it was manufactured at a time  
22   when that standard didn't apply. But a product  
23   manufactured after the date must meet the new  
24   standard. This is different. This is a sales  
25   prohibition. So regardless of when a particular



1 product might have been manufactured, if it doesn't  
2 meet that particular requirement, it can't be sold,  
3 which is different from a standard. That is a pure  
4 sales prohibition.

5 So DOE initiated that first rulemaking  
6 cycle. We published a framework document in December  
7 of 2013. We published the proposed rule in March of  
8 2016, which focused on the first question of the two  
9 that the statute directed us to answer. And that  
10 question was whether to amend standards for GSL's.

11 And we, in that particular rulemaking we  
12 analyzed and proposed standards that would have  
13 applied to bulbs other than incandescents. Why,  
14 because there was a statutory prohibition in place at  
15 that time that we refer to as the Burgess Amendment, I  
16 guess since he was the main sponsor, which prohibited  
17 the Department from gathering the information and  
18 doing the analysis and setting standards for  
19 incandescent lights.

20 So in some ways we were in a sort of legal  
21 catch 22. That we had a legal obligation to make a  
22 determination with regard to incandescent lamps, but  
23 we also had a legal obligation to not make that  
24 determination because we were prohibited by law from  
25 spending money on it. And this is not new ground.

1 This is throughout the history of this rulemaking, we  
2 have been very clear about that in all of the various  
3 documents that the Department published.

4 But that appropriations rider was not  
5 continued starting in the appropriations for Fiscal  
6 Year 2017 -- well, actually for 2018, I'm sorry. It  
7 was in 2017 applicable to Fiscal Year 2018  
8 appropriations. And so as a result, that prohibition  
9 on our ability to do the work that was required of us  
10 for Question 1 of the two questions that we were  
11 directed to consider, was removed. And we actually  
12 started up that process.

13 We published a Notice of Data Availability  
14 seeking information on GSIL's and other incandescent  
15 lamps. And many of you provided data in response to  
16 that. And that's been very helpful. We also stated  
17 in that Notice that because we had not previously,  
18 when we did all of our prior rulemaking documents in  
19 this proceeding, because we had not previously  
20 considered that first question, because we were  
21 legally prohibited from doing so, that it might lead  
22 us to revisit the decisions we had previously made  
23 with regard to incandescent lamps.

24 So, to be clear on this, that decision, and  
25 we said this very clearly both in the Notice of Data

1 Availability in 2017 and the proposal that we're  
2 discussing today, that first determination, the  
3 determination as to whether standards in effect for  
4 general service incandescent lamps needs to be amended  
5 and whether it's a set standard for general service  
6 lamps. That's not a determination that has yet been  
7 made by us. And again, that's been clear throughout  
8 this process. We've made that statement many, many  
9 times.

10 But it is also a decision that we are still  
11 obligated to undertake. And we will, and what we're  
12 talking about today, is part of that process to figure  
13 out what is the scope of the lamps that would be  
14 subject to any standard, assuming we make a  
15 determination that standards needed to be amended.  
16 And as a result of that, because the statute has a  
17 predicate to the backstop -- the predicate being if  
18 the Secretary, which is a discretionary determination,  
19 if the Secretary determines that standards in effect  
20 for general service incandescent lamps needs to be  
21 amended, because that determination hasn't been made.  
22 The predicate for the potential for the backstop  
23 simply doesn't exist. And we couldn't have made that  
24 determination. I'm talking about the January 1, 2017  
25 date here.

1           But the existence of the appropriations  
2 rider meant we couldn't have made that determination  
3 by that date anyway. So as I said, there's sort of a  
4 legal catch 22 that I think went backwards.

5           So let me now get into the particular lamps  
6 that we're discussing here today.

7           MR. RAMIREZ: And Dan, just really quick,  
8 are there any questions on that, the overview so far?

9           Okay.

10          MR. BALLO: Tim Ballo with Earthjustice.

11          Imposed is an interesting choice of words  
12 because you're technically correct. The standard is  
13 not imposed until January 1, 2020 regardless of  
14 whatever DOE thinks about the standard. Imposed is  
15 not triggered. Triggered is the word that I -- would  
16 you use the words triggered there?

17          MR. COHEN: No. I would not use the word  
18 triggered there. It is not -- well, in the sense that  
19 we have not been triggered if that's what you mean.  
20 You could use -- I guess if you want to use the word  
21 triggered is whether that is a question as to if the  
22 predicate had been met and we failed to meet the legal  
23 obligation for the promulgation of the rulemaking,  
24 then, yeah, triggered, I guess, is a word I could use  
25 there. And the point we would have is that we have

1 not been triggered because we have not made the  
2 decision that would have triggered the concept of the  
3 backstop being legally operative.

4 MR. BALLO: Thank you for clarifying.

5 MR. RAMIREZ: There was a request to go back  
6 one slide.

7 MR. COHEN: I have one more. Sorry.

8 (Pause.)

9 MR. COHEN: Is there a particular question  
10 or --

11 MR. RAMIREZ: No. I just -- as I was  
12 listening to his question.

13 MR. COHEN: Mm-hmm.

14 MR. RAMIREZ: Okay. Great. All right.  
15 Thank you everyone. Dan?

16 MR. COHEN: Okay. Thank you. So let's go  
17 forward now. So the definitions -- this is all about  
18 definitions -- so the definition of GSIL is on the  
19 screen behind me and I'm not going to go through all  
20 the details of it. I mean, it's hard to read anyway  
21 and -- even for me. I can't get the screen far enough  
22 away from me to actually be able to focus on it  
23 anyway.

24 (Laughter.)

25 MR. COHEN: But I would point out a couple

1 of things from that definition.

2 So first, that definition of general service  
3 incandescent lamp has, as a statutory basis, that it  
4 includes a medium screw base. It sets certain lumen  
5 ranges for what could be considered a general service  
6 incandescent lamp. This is all before the exception,  
7 right? So the clear -- as a legal matter, what could  
8 even be considered as a general service incandescent  
9 lamp has to have those factors. And then the statute  
10 sets out 22 types of lamps that are not included in  
11 the definition of general service incandescent lamps.

12 So the incandescent versions of those lamp types are  
13 not general service incandescent lamps.

14 Now, what we're going to talk about the rest  
15 of today is those 22 different types of lamps because  
16 the rulemakings at issue that were published back in  
17 January of 2017 was assessing whether those lamp types  
18 should, in fact, be considered GSILs.

19 So going through them, there were five lamp  
20 types, rough service, vibration service, three way  
21 incandescent, certain lumen range -- high lumen lamps  
22 and shatter resistant lamps that, by the rulemakings  
23 at issue today, that were promulgated in January of  
24 2017, which we're proposing to now remove or withdraw,  
25 were included as general service incandescent lamps

1       for purposes of the definition. But those lamp types  
2       are also subject to a separate regulatory regime under  
3       the statute, under a different provision of the  
4       statute.

5               So the general service lamp rulemaking is  
6       being conducted under section 6295(i)(6). These five  
7       lamp types are subject to a regime that's under  
8       6295(l)(4). So and what that regime does, is it sets  
9       up a process, and it did it back in 2007 at the same  
10      time that the amendments were enacted with regard to  
11      general service lamps. A regime where the Department  
12      has to, on an annual basis, monitor sales. Right?  
13      Again, the same thing about lamp sales, which is at  
14      play in the definition of general service lamps as  
15      well.

16             And the Department, as we were obligated to  
17      do back in 2007, published a benchmark survey that  
18      laid out what we projected would be lamp sales for  
19      those lamp types, and we monitor, on an annual basis,  
20      and if the sales of lamps exceeds that threshold by  
21      100 percent, then the statute directs that the  
22      secretary would undertake what it terms as an  
23      accelerated rulemaking by a date certain, and sets up  
24      a different backstop requirement if the Secretary  
25      fails to complete that accelerated rulemaking. And it

1 depends on the particular lamp what the particular  
2 backstop might be.

3 And this actually occurred in 2015. There  
4 was a -- the sales thresholds for rough service and  
5 vibration service lamps exceeded that -- the threshold  
6 by the requisite amount and so the secretary was  
7 triggered to undertake a rulemaking and we didn't do  
8 it by the time it was required, in part, I think  
9 because the way the statute is set up, there's no  
10 physical way to actually have met that deadline given  
11 the way the sales tracking occurs.

12 So a backstop requirement applied and we  
13 have now issued a rulemaking to implement those two  
14 backstop requirements. And so those rough service and  
15 vibration service lamps are considered and dealt with  
16 in that rulemaking. So our view is that Congress, at  
17 the same time they set up a process for considering  
18 general service lamps and also this process for  
19 dealing with these five lamp types didn't expect that  
20 there would be double -- essentially double regimes  
21 applicable to those lamp types. Congress set up a  
22 regime for these five lamp types and we're applying  
23 that regime. And when it is triggered, we are, in  
24 fact, doing what is required under the statute.

25 So those lamp types -- well, whether



1 considered general service lamps for purposes of the  
2 rulemaking we're talking about that is still yet to  
3 come to consider standards, and even today's  
4 definitions rule. Regardless of the outcome of  
5 today's proceeding and that standards rulemaking,  
6 those lamp types are subject to a regulatory regime  
7 under the statute. That's not going to change. And  
8 in fact, that regulatory regime has been operative,  
9 and I think I've covered most of that.

10 So other exemptions, there were a number of  
11 -- I know my lighting friends here in the room are  
12 going to blanch when I say this, but I call them odd  
13 shaped lamps.

14 MR. RAMIREZ: Dan, before you get any  
15 further, any comments on the five exempt lamps? Yeah.  
16 Let me go. Is it Phi?

17 MR. NGUYEN: Phi Nguyen --

18 MR. RAMIREZ: Phi?

19 MR. NGUYEN: -- Energy solutions --

20 MR. RAMIREZ: Okay.

21 MR. NGUYEN: -- California IOUs. I just  
22 wanted clarification on this notion of double  
23 regulation so that I can understand this. GSILs are  
24 -- they have standards. They have maximum watts  
25 requirements. Yet, they -- the backstop 45 lumens per

1 watt applies to GSILs because they are defined as  
2 GSLs. So is that also considered double regulation?

3 MR. COHEN: So, no. That would not be  
4 double. That's -- that would still be considered  
5 under the GSL regime because Congress included those  
6 as GSILs as GSL.

7 MR. NGUYEN: How is that different from the  
8 five lamps? I don't follow.

9 MR. COHEN: Because the -- because that at  
10 first, the standards you're talking about were  
11 statutory and then, we're now looking to determine  
12 whether in fact the standards need to be amended.  
13 That's what Congress told us to do. That happens  
14 throughout this statute. Not just for lamps, but for  
15 any number of other products where Congress will set  
16 an initial standard and then direct the Secretary to  
17 consider whether those standards should be amended.  
18 In this -- the instance of these five, Congress set up  
19 the process by which that subsequent consideration for  
20 standards should be considered, and to say, those  
21 aren't GSILs. We want them over here. Right?  
22 Because they're excluded going back to the definition.

23 MR. NGUYEN: So --

24 MR. COHEN: So they're specifically excluded  
25 from the definition of GSIL.

1           MR. NGUYEN: Right. And so doesn't that  
2 relate to DOE's mandate to consider whether they are  
3 even excluded? Isn't that part of it?

4           MR. COHEN: Okay.

5           MR. NGUYEN: So wouldn't also be considered  
6 -- wouldn't GSILs also be considered double  
7 regulation, I guess, in that sense?

8           MR. COHEN: Again, no. That regulation was  
9 what Congress directed us to do for those lamps that  
10 are, in fact, GSILs. And it's a rulemaking that we  
11 are obligated to do or are in the process of doing.

12          MR. NGUYEN: Thanks for clarifying.

13          FEMALE SPEAKER: Okay.

14          MR. COHEN: Thank you. Patrick.?

15          MR. SAXTON: I'm going to come at Phi's.  
16 Pat Saxton, California Energy Commission. I'm going  
17 to come at Phi's question from the other direction.  
18 Since Congress also required DOE to consider if  
19 exemptions to GSILs should be continued --  
20 discontinued -- excuse me -- I don't understand why  
21 you're describing those two actions to occur in  
22 isolation and in a specific sequence.

23          MR. COHEN: And I'm not. And I'm actually  
24 saying that our consideration is that those five lamp  
25 types, because Congress put them in a separate regime,

1 we don't believe that those should be considered as  
2 GSILs. That the consideration that Congress asked us  
3 to do about whether the excluded lamp types should be  
4 GSIL wouldn't apply to those because Congress,  
5 simultaneous with setting up that obligation, also put  
6 them in a different portion of the statute.

7 MR. SAXTON: Okay, thanks.

8 MR. RAMIREZ: John?

9 MR. ZIMMERMAN:: Oh, no, Scott. Yeah.

10 MR. RAMIREZ: Oh, Scott? Okay.

11 MR. ZIMMERMAN:: Scott Zimmerman, Silas.

12 I'm kind of the lone wolf here. Again I don't want to  
13 feel like I'm being run over by a steam engine. But  
14 in our particular case, we are innovating a different  
15 kind of light. It's a hybrid system. It involves  
16 using an LED and an incandescent where the  
17 incandescent is run in a low voltage such that it  
18 actually outlives the life of the LED and it also  
19 controls the voltage on the LED itself, eliminating  
20 the need for drivers. That hybrid solution is  
21 dependent on the availability of incandescents. This  
22 is being done for high base. It's being done for a  
23 variety of different things.

24 How does -- I -- in particular, I know the  
25 gentleman who used to make in the US, the only

1 manufacturer of rough service lamps, incandescent  
2 lamps, got put out of business because of this  
3 particular situation.

4           And all I'm saying is is that, how does  
5 innovation allowed to occur when you're essentially  
6 taking away -- it -- what people don't understand is  
7 is that incandescent is providing 10 times the amount  
8 of near-infrared divisible, and natural sunlight is  
9 one to one. By adding just a little bit of  
10 incandescent, not only do you eliminate the driver and  
11 provide on the infrared that is compared to natural  
12 sunlight. But if you're taking away all my ability to  
13 get, other than to go to China, those particular  
14 incandescent bulbs, you are essentially squashing  
15 incandescent. And based on our research, may be the  
16 only solution to prevent a huge liability issue  
17 associated with visible-only LEDs.

18           If I'm right, fine. If I'm wrong, simply  
19 adding a little bit of incandescent to an LED -- this  
20 is a patent pending, you know, approach, novel --  
21 yeah, with multiple filings and multiple people  
22 interested in that fabrication, but I need an  
23 incandescent to go along with my LED to make this  
24 happen. So how does a hybrid fit into this whole  
25 situation?

1           MR. COHEN: Admittedly, I'm unaware of your  
2           technology. So I don't know that I can answer that  
3           question here.

4           MR. ZIMMERMAN: But I'm just telling you  
5           that --

6           MR. COHEN: Right. Yeah.

7           MR. ZIMMERMAN: -- as a comment, you shut  
8           down one manufacturer in the U.S. based on this  
9           change, that same rough service bulb could've been  
10          used in our hybrid situation made in the US and now we  
11          have to go overseas.

12          MR. COHEN: So just to be clear though, with  
13          the shutting down comment you're making -- I just want  
14          to be clear on that -- that's with regard to the rough  
15          service and vibration service lamps where you're  
16          talking about now, not the definition rule that we're  
17          discussing here?

18          MR. ZIMMERMAN: I understand and I'm sorry  
19          if that's not the -- what you're trying to -- all I'm  
20          saying is is that, there is an implication by you  
21          doing what you're doing.

22          MR. COHEN: Right.

23          MR. ZIMMERMAN: And especially if you go in  
24          now and say that a bunch of these things that I can  
25          presently go and get are no longer allowed under the

1 exemption. And I'm making 180 to 100 lumen per watt  
2 hybrid systems because I'm simply using a little bit  
3 to match what we normally used to get in the summer.

4 MR. RAMIREZ: Okay. Scott, the two minutes  
5 are up. Let me go to Noah, then Chris.

6 MR. HOROWITZ: Noah Horowitz with NRDC. I'd  
7 like to focus, Dan, on the three-way incandescents and  
8 shatter resistant lamps. Assuming in 2020, as we have  
9 stated that 45 lumen per watt standard goes into  
10 effect, at that point, the motivation for  
11 manufacturers and retailers to further promote three-  
12 way incandescent bulbs and shatter resistant bulbs  
13 really goes up. So this could easily become a  
14 loophole. The consumer that used to buy a 100 or a 60  
15 watt incandescent bulb, all they need to do is buy a  
16 30, 70, 100 watt bulb. Two clicks, they have the  
17 equivalent of the 60. Three clicks, they've got the  
18 100 watt and these are even less efficient than the  
19 original incandescents and aren't even subject to the  
20 25 percent savings from tier 1.

21 Also, while there is a safeguard system in  
22 here, it takes a while for the tracking and it's  
23 unclear to us where that sales data is coming from and  
24 how accurate it is. And it takes a while for the fix  
25 to go into effect. And the fix in some cases is,

1       instead of using 60 watts, you only need to use 40  
2       watts, when instead, we could've had lamps that used  
3       less than 10 watts for that same bulb. And shatter  
4       resistant is a very broad and very scary potential  
5       loophole. Take any lamp, put a cheap five cent  
6       neoprene coating over it, now you're shatter  
7       resistant. So you could put that on any bulb and  
8       almost overnight not be subject to the regulations.  
9       Thanks.

10               MR. RAMIREZ: All right.

11               MR. COHEN: All I'll say in response is  
12       that, you know, your comment is premised on the notion  
13       of a standard, which is a sales prohibition and one  
14       could question whether that sales prohibition is, in  
15       fact, a standard. That's a separate question. And  
16       second, you know, just our view is that Congress  
17       created that regime for a three way lens. If in fact,  
18       what you're suggesting were to occur, we would be  
19       monitoring the sales data and we would do what  
20       Congress directed of us to do. And if -- I hate to  
21       use the word loophole, because it's -- if it's some --  
22       carries somewhat of a pejorative, but you know, the  
23       law says what the law says. If we -- if it were to be  
24       triggered, we would take the appropriate action.

25               MR. RAMIREZ: Okay. Thank you.



1 Chris?

2 MR. GRANDA: Thank you. Chris Granda. Two  
3 things briefly, first in response to Mr. Zimmerman's  
4 concern, I don't think there's anything in any of the  
5 existing or future standards that would prohibit any  
6 specific technology from being used to meet that  
7 standard. So as a technology agnostic standard, the  
8 product that you described, as long as the package was  
9 within, you know, that 45 lumens per watt threshold,  
10 should be just fine. At least that's my reading of  
11 it. My question is --

12 MS. MILLER: I think we're getting a little  
13 pickup. Scott, can you turn your mic off?

14 MR. ZIMMERMAN: Oh, sorry.

15 MR. GRANDA: My other question has to do  
16 with what seems to be a distinction, Mr. Cohen, that  
17 you're drawing between -- GSLs as defined in statute  
18 and GSLs as defined by DOE under authority provided to  
19 DOE in statute, are you creating a distinction between  
20 those two things?

21 MR. COHEN: No. What I'm saying is that we  
22 have undertaken a portion of what was required of us  
23 by law. We had two obligations, one to make a  
24 determination whether standards in effect for GSL's  
25 needs to be amended. And two, to consider whether

1 other lamp types that could meet general service lamps  
2 that were otherwise excluded from the GSIL definition  
3 should, in fact, be included. We did that. But we  
4 have now sort of rethought what we had done in that  
5 rulemaking and we have thought that maybe that wasn't  
6 as well taken as we had previously decided. So we're  
7 looking to withdraw that -- we're proposing to  
8 withdraw that prior rulemaking because for the reasons  
9 I was just laying out for instance for the five lamp  
10 types that are considered here for purposes of this  
11 portion of the slides. And we'll get into the  
12 additional lamp types that are at issue. We realize  
13 that Congress setting up that separate regulatory  
14 regime simultaneous with that obligation meant  
15 Congress really wanted those lamp types to be  
16 considered under that other regulatory regime and not  
17 part of the GSL rulemaking.

18 MR. RAMIREZ: Okay.

19 Phi?

20 MR. NGUYEN: Phi Nguyen again, Energy  
21 Solutions. Sir, I wanted to go back to double  
22 regulations so that I get this. Given that these five  
23 lamps, the backstop for those are maximum wattage  
24 requirements and the backstop for GSLs is a 45 lumen  
25 per watt requirement, two different metrics. Does DOE

1 still consider that double regulation even though it's  
2 two different metrics?

3 MR. COHEN: Congress chose the metrics for  
4 purposes of those five lamp types. We didn't. That's  
5 in a statute. That's the type of regime that Congress  
6 chose to comply with and we don't have control over  
7 that. That's just what the statute says.

8 MR. RAMIREZ: Okay. And I made a little  
9 mistake there. I should've made sure that anyone else  
10 had any comments before went back to Phi. So but,  
11 Tim?

12 MR. BALLO: Dan, I'm wondering if you can  
13 clarify for me what DOE believes is encompassed by the  
14 term exemption in the second subclause that -- if you  
15 look at the exemptions for -- from general service  
16 lamps. Part of the general service incandescent lamps  
17 I guess.

18 MR. COHEN: I think what we considered in  
19 the prior rulemaking is the January 2017 rulemakings  
20 were the 22 types that were excluded from the  
21 definition of general service incandescent lamp.

22 MR. BALLO: And that still is the issue --  
23 thank you.

24 MR. RAMIREZ: Okay. Is there anyone else  
25 that hasn't yet made a comment that would like to do

1       so before I call on Patrick again? Okay.

2               Patrick?

3               MR. SAXTON: So there's been a lot of  
4       discussion of congressional intent and what they want  
5       they want DOE to do. I'll just say I find it  
6       confusing that -- because many incandescents did have  
7       prior standards and now, it's -- we're talking about  
8       the different standards for the five exempt types all  
9       at a much, much -- in fact, a radically different  
10      level than the rest of general service lamps, in which  
11      those same incandescents are included.

12              So, strange that Congress would leave an  
13      entire broad category of lighting. In fact, at the  
14      time 2007, the most populous category of lighting at a  
15      very low level and then say, CFL's which already met  
16      that level and LEDs which were just emerging, but  
17      expected to meet that level should Congress would  
18      prescribe something there, but not mean to and  
19      prescribe it over there. So thank you.

20              MR. COHEN: Yeah. All I'm going to say is  
21      we, you know, we can't -- we won't pass judgment on  
22      Congress's wisdom going one way or the other, it's  
23      just what the statute says is what it says. And but  
24      we hear you in terms of the confusion and we've heard  
25      that now from many corners, which is why we're

1 actually get engaged in this rulemaking. Our hope,  
2 goal and desire here is to alleviate that confusion.

3 MR. SAXTON: Okay. I need -- real quick, so  
4 I don't know the operative procedure for a federal  
5 agency. For a state agency in California, if there's  
6 a conflict in our legislature, we assume that they in  
7 fact, by law, we're required to assume that they  
8 understood that conflict and proceed. So in this  
9 case, if this was California, we would, by law,  
10 acknowledge the conflict. But they clearly meant to  
11 include GSILs.

12 MR. RAMIREZ: Before I call on Noah, I just  
13 want to make everyone aware that, we're not ignoring  
14 the folks online. I am checking with Naeema every now  
15 and then to make sure that there's any hands raised,  
16 and so far there haven't been any. So we are keeping  
17 them in account.

18 Noah?

19 MR. HOROWITZ: Thank you. Noah Horowitz  
20 with NRDC.

21 One additional point I meant to make is  
22 that, already on the market today, there is LED bulbs  
23 that are in -- three way LED products that are  
24 available from a wide range of manufacturers and they  
25 offer the same performance and they're also wildly

1 cost-effective as they last much longer and use a lot  
2 less energy.

3 And I'm also wondering, Dan, if you can help  
4 clarify if you think three way lamps are generally  
5 would fit the term here intended for general service  
6 applications as they're often placed in table lamps  
7 and --

8 MR. COHEN: Yeah. So I -- you know, I don't  
9 know, but I -- well, again, our view is that Congress  
10 created this other regime for them and we'll -- and  
11 that's where they should be appropriately considered.

12 MR. HOROWITZ: Thank you.

13 MR. RAMIREZ: Okay. Is everyone okay now  
14 with moving on to other exemptions? Phi?

15 MR. NGUYEN: One last one. Phi Nguyen,  
16 Energy Solutions.

17 In the January 2017 final rule, DOE stated  
18 -- I think it was Alan or it might've been one before,  
19 but they stated that the backstop for rough service is  
20 they considered that final rule to be the accelerated  
21 rulemaking that Congress intended. Is that line of  
22 thinking sort of changed or is there -- can you  
23 clarify what was the intent of that statement?

24 MR. COHEN: So you eventually have to give  
25 me the cites of that, because those rules were very

1 clear I thought. Although, in retrospect looking  
2 back, we were not necessarily a model of clarity, but  
3 in multiple times in the rulemaking, both are, there  
4 are two rulemaking's here. So for lack of a better  
5 term, I guess I characterize them as sort of the  
6 comprehensive rule and then IRL-specific rule. So  
7 throughout the comprehensive rule, the one that dealt  
8 with the greatest variety and didn't deal with IRLs  
9 actually, we said multiple times that we were not  
10 undertaking a standards rule and there was no standard  
11 that was there. So I'm just not sure what --

12 MR. NGUYEN: Sure. We'll submit --

13 MR. COHEN: Okay.

14 MR. NGUYEN: -- in the written comments.

15 Yeah. Thanks again.

16 MR. COHEN: Yeah. Appreciate that.

17 MR. RAMIREZ: Thank you.

18 Let me just do a quick bio check here.

19 Everyone okay or do we want to do a quick 10 minute  
20 break? Okay. I'm seeing a couple heads bobbing. So  
21 let's do this. I see -- I call them one function  
22 breaks, right? Where you do -- we keep it like five  
23 to seven minutes with one function. Either go to the  
24 bathroom and come back or check your messages and come  
25 back. You know, I'm not going to check the multitask,

1       so if you're checking your messages in the bathroom at  
2       the same time, you know? But the point is, let's keep  
3       it brief, right? Five to seven minutes and then we'll  
4       come back. Okay?

5                       (Whereupon, a brief recess was taken.)

6               MR. RAMIREZ: Let's go ahead and get started  
7       back up.

8               MR. COHEN: Now I'm on. Okay. Thank you.  
9       So we'll go back.

10               I was going through the various lamp types  
11       that we were discussing here. I moved on to the next  
12       subject matter, which is incandescent reflector lamps.  
13       And you know, as I mentioned, we did two rulemakings  
14       in January of 2017, I'm terming them for purposes of  
15       today, the comprehensive rule which dealt with a whole  
16       variety of lamp types. And then, the incandescent  
17       reflector lamp, the IRL rule as a separate rule, which  
18       while the comprehensive rule excluded IRLs from the  
19       definition the IRL specific rule would've brought them  
20       back in. And you know, looking back at the statute,  
21       which we've done pretty carefully, IRLs are just  
22       exempted explicitly in the statute from being a  
23       general service lamp, and they're also excluded from  
24       being a GSIL.

25               We think it's pretty clear that Congress



1       meant for IRLs to not be GSLs. You know, it couldn't  
2       be any clearer. It's right there on the face of  
3       statute. The definition explicitly excludes IRLs.  
4       And so, our view is that IRL specific rule just could  
5       not have been authorized as a matter of law. I don't  
6       know if there's any -- Steve?

7               MR. ROSENSTOCK: Quick question, you said  
8       2000 -- should I go to the mic?

9               MR. RAMIREZ: Yes, please.

10              MR. ROSENSTOCK: Sorry.

11              MR. RAMIREZ: Some people can hear, but not  
12       everybody can.

13              MR. ROSENSTOCK: Okay. Sorry. Thank you  
14       very much. Steve Rosenstock, Edison Electric  
15       Institute.

16              MR. RAMIREZ: Steve.

17              MR. ROSENSTOCK: Oh, okay. Thank you.  
18       Section 322 of EISA 2007 is titled, incandescent  
19       reflector lamp efficiency standards. So did that play  
20       a role in any of the decision-making process or how  
21       did that --

22              MR. COHEN: Not for this purpose, no. I  
23       mean, it --

24              MR. ROSENSTOCK: Okay.

25              MR. COHEN: -- this was simply just reading

1 the statute. I mean, I think --

2 MR. ROSENSTOCK: Okay.

3 MR. COHEN: -- we -- our view is that it  
4 just as a matter of -- pure matter of law.

5 MR. ROSENSTOCK: Okay. Because 322 had  
6 specific standards and timelines for --

7 MR. COHEN: Mm-hmm. Yes.

8 MR. ROSENSTOCK: -- reflector lamps, but  
9 without all of the other conditions of 321. So, okay.

10 MR. COHEN: That's correct.

11 MR. ROSENSTOCK: Thank you very much.

12 MR. COHEN: And as with the other, the five  
13 lamp types we were discussing a few moments ago,  
14 right, if Congress had set up the regime for those  
15 lamp types, it's not as if these various lamps are not  
16 subject to review by the department and --

17 MR. ROSENSTOCK: Yeah.

18 MR. COHEN: -- potential standards. They're  
19 just dealt with differently.

20 MR. ROSENSTOCK: Yeah. The only reason I  
21 asked that specifically for those lamps, there's a  
22 specific section in EISA 2007 as opposed to the three  
23 way lamps, et cetera. Thank you very much.

24 MR. COHEN: Just to be clear, Steve, there's  
25 the three way lamps are in 6295(1)(4). They're --

1       it's so much like IRLs, they are -- there is a  
2       separate statutory to --

3               MR. RAMIREZ:   Okay.   Let me get Noah, then  
4       Phi.

5               MR. HOROWITZ:   Noah Horowitz with NRDC.   We  
6       think reflectors are a really important part of this  
7       discussion.   DOE was ordered through EISA to review  
8       the initial set of exemptions and we assert that  
9       reflectors are used in general service applications.  
10      There were over 800 million of these type of bulbs, or  
11      sockets out there, and this is growing.   This is an  
12      increasingly popular lighting choice if you go in to  
13      remodel the new homes.   And we went to the Home Depot  
14      website late last night, didn't have anything else to  
15      do because my testimony was final and there were over  
16      850 LED reflectors on Home Depot's website

17              And I've got a few here just to show what  
18      we're talking about.   Here's the incumbent  
19      incandescent reflectors.   They're very inexpensive.  
20      You can buy them in large multi packs.   For a few  
21      dollars more, you can get an LED version.   Here's one  
22      by Cree, but they're made by GE, Philips, all the  
23      major manufacturers.   The bulb looks and performs  
24      exactly the same way.   The only difference being, this  
25      uses a fraction of the energy and lasts a whole lot

1 longer and it's much better for consumers in terms of  
2 convenience, lower bills and not having to climb up on  
3 the ladder. So these are widely available and these  
4 are used to illuminate our kitchens, our studies and  
5 our homes. These are very prevalent and we think they  
6 need to be included in the regulations. Thanks.

7 MR. RAMIREZ: Okay. Phi. Then I'll go.

8 MR. NGUYEN: Phi Nguyen, Energy Solutions on  
9 behalf of the IOUs, we don't agree that IRLs should be  
10 treated separately. As Noah stated, they are used in  
11 general service applications, and here's the reason  
12 why that's important. GSILs fall under GSLs. I think  
13 there's no dispute of that. LEDs also fall under  
14 GSLs. That -- GSLs is a technology neutral efficiency  
15 requirement. So eight lamps for example that are  
16 incandescents, they need to be 45 lumens per watt.  
17 The market can transform by adopting LEDs much more  
18 efficient as Noah pointed out, much better products  
19 for consumers.

20 When DOE looked at IRL standards in 2015,  
21 they did not consider LEDs. They just looked at  
22 better incandescent bulbs. So there's no mechanism  
23 for DOE to have a technology neutral efficiency  
24 standard for IRLs. So IRLs are used in general  
25 service applications. So that should be consistent

1 with other lamp types used in general service  
2 applications. It is just inconsistent to treat them  
3 separately. So we do believe that DOE was correct the  
4 first time in 2017 in discontinuing exemptions for  
5 reflector lamps.

6 MR. RAMIREZ: Okay. Thank you. David?

7 MR. GATTO: Dave Gatto, Westinghouse  
8 Lighting.

9 I guess two things, one, the first one I'll  
10 start with is, Noah, I agree with you. There are lots  
11 of LED options. That actually is part of our point.  
12 The marketplace is changing and a lot of people are  
13 putting them in, not just reflector lamps, Noah.  
14 Instead of a recessed can, you may find a flat laid  
15 LED that doesn't even require anything more than a  
16 junction box.

17 I do appreciate, you know, the efficiency  
18 advocate side of the equation. We are for efficiency.  
19 We launch lots of LED products. At the same time, I'm  
20 going to repeat what I said at the October 2016  
21 meeting and then, my public submission of comments on  
22 the rule, IRLs are separate. They can be used, not in  
23 places where a traditional A-lamp would be used,  
24 because if you put a reflector lamp as I mentioned  
25 that, you know, when Noah and I were having this

1 conversation two years ago, then all the light goes on  
2 your ceiling.

3 So I recognize that there are different  
4 lighting options someone may used to light a room, but  
5 GSILs are what are referred to in the statute. And  
6 products that replace a GSIL, which is an  
7 omnidirectional medium based lamp within a certain  
8 lumen range, are what this particular regulation is  
9 about. There's an IRL regulation. If there's  
10 products that you feel that aren't being aggressively  
11 gone after, if there's a method by which you can  
12 petition the department to consider another product.  
13 But we're talking about a product definition that was  
14 consistent for more than a decade, including two and a  
15 half of a rulemaking, the rulemaking that we're still  
16 in, and then, suddenly, I'm not sure why, DOE chose to  
17 take a different direction. We objected to it, not  
18 because we're against efficiency or because we don't  
19 want to make LEDs, but because it doesn't make sense.

20 So I understand that not everyone agrees with what  
21 DOE's doing. But just so that we're on the record, we  
22 do agree.

23 MR. RAMIREZ: All right. Joe?

24 MR. GATTO: I'm going to turn the mic off.

25 MR. RAMIREZ: Joe wants to speak.

1 MR. HOWLEY: So just to add --

2 MR. RAMIREZ: Just state your name.

3 MR. HOWLEY: This is Joe Howley from GE

4 Lighting --

5 MR. RAMIREZ: Did -- okay.

6 MR. HOWLEY: It's still on.

7 MR. RAMIREZ: I'm sorry. And did you state  
8 your name?

9 MR. HOWLEY: Joe Howley --

10 MR. RAMIREZ: Okay. Sorry --

11 MR. HOWLEY: -- from GE Lighting.

12 MR. RAMIREZ: -- about that. Yeah. Go  
13 ahead.

14 MR. HOWLEY: Just to add to what Dave just  
15 mentioned, the reason that Congress explicitly  
16 excluded reflector lamps from this regulation was, the  
17 GSL regulation was designed to set efficiency  
18 standards for A-line lamps. And A-line lamps by their  
19 technical construction are more efficient than  
20 reflector lamps and that's because, with a reflector  
21 lamp, I have to put a reflector around a filament and  
22 it absorbs energy, perhaps 20, 30 percent of the  
23 energy. And therefore, if ever we wanted to consider  
24 a regulation for reflector lamps, they had to be  
25 considered technically on their own merits. What's

1 the highest efficiency for a reflector lamp versus  
2 what's the highest efficiency for a general service  
3 lamp?

4 That's why when Congress, in the 2007 EISA  
5 law, specifically said, do not regulate reflector  
6 lamps with general service lamps if -- it didn't say  
7 do not regulate them, they just need to be regulated  
8 in their own separate rulemaking with their own  
9 separate technical considerations. Thank you.

10 MR. RAMIREZ: Any other comments from the  
11 floor that we haven't heard from? Yeah. In the back?

12 MR. SILCOX: Clark Silcox with NEMA. I just  
13 want to make one comment on a phrase that's been used  
14 a couple of times today. And that's the -- that GSL  
15 is a technology neutral approach or a technology  
16 neutral regulation. That is something for which the  
17 department has discretion to choose that approach, but  
18 it's not the only approach that was recognized in the  
19 statute. It is one of the approaches because Congress  
20 directed the DOE to consider a 45 lumen per watt  
21 standard for all GSL lamps. And in that sense, as a  
22 minimum that might apply across all types of general  
23 service lamps, it is technology neutral in that  
24 regard. But another approach that the statute  
25 explicitly recognizes is that DOE can have separate



1 standards for a GSIL for CFL and general service LED  
2 and now my friend here, John Green's company, Finally  
3 Light Bulbs, they're a general service induction lamp.

4 And so, that blend of standards under the  
5 GSL umbrella is statutorily recognized and is not  
6 necessarily technology neutral. The only caveat that  
7 Congress required, that if DOE takes that latter  
8 approach, is that the energy savings produced by that  
9 collection of standards applicable to those different  
10 types of lamps produce energy savings that's greater  
11 than or equal to a 45 lumen per watt standard. So I  
12 just want to clarify that the statutory direction  
13 hereby Congress was not only technology neutral  
14 approach, but DOE has discretion to go either way  
15 based on its analysis.

16 MR. RAMIREZ: All right. Great.

17 Go ahead, Patrick.

18 MR. SAXTON: And on the second bullet where,  
19 again, we're talking about DOE's current viewpoint  
20 that certain lamps weren't supposed to be considered  
21 in the DOE direction to reconsider exemptions for  
22 certain incandescent lamps, which was congressionally  
23 directed to be both part of the 2014 rulemaking and  
24 the 2020 rulemaking. Can you tell us what DOE's  
25 current thinking of the lamps that can be included in

1       that review? We've only talked about the ones that  
2       you think know that DOE now thinks they can no longer  
3       think about. So which ones can they?

4               MR. COHEN: As the proposal makes clear, we  
5       are adhering to the statutory definition. So what  
6       Congress has included as general service lamps because  
7       they're either general service incandescent lamps,  
8       compact fluorescents, LEDs, organic LEDs, those --  
9       which are the current definition in both the statute  
10      and as codified in our regulations, is the scope of  
11      general service lamps.

12             MR. SAXTON: Okay. I get that --

13             MR. COHEN: Separation in the rulemaking.

14             MR. SAXTON: I get that. But what about the  
15      direction to consider what exemptions should be  
16      maintained or discontinued? What's in the category  
17      that DOE's now thinking about maintaining or not  
18      maintaining?

19             MR. COHEN: Right. We are sticking to the  
20      statutory standard. The --

21             MR. SAXTON: So none?

22             MR. COHEN: The -- just the statutory  
23      definition.

24             MR. SAXTON: So you're only keeping the  
25      things that were originally in the statute and not

1       reconsidering exemptions?

2               MR. COHEN:  No.  Just the -- for purposes of  
3       today, the proposal is that we would stay with the  
4       statutory definitions.

5               MR. RAMIREZ:  All right.  Let me get Tim,  
6       then Phi.

7               MR. SAXTON:  I'm sorry.  One second.  But  
8       that was supposed to be -- the reconsideration was  
9       supposed to be part of the 2014 rulemaking as directed  
10      by Congress?

11              MR. COHEN:  That's right.  And so that --  
12      and our proposal is to maintain the statutory  
13      definitions.

14              MR. RAMIREZ:  Okay.  Tim, then Phi.

15              MR. BALLO:  So I actually had a question  
16      already, but that prompted another one, that exchange.  
17      So just to make sure I understand, is the department  
18      intending to, at some point in the future, evaluate  
19      whether exemptions should be discontinued or is that  
20      -- is this a determination that there shall be no  
21      additional coverage?

22              MR. COHEN:  So our proposal right now is the  
23      definitions that are in the statute.  Of course, the  
24      statute as I described, shuts out two rounds of  
25      rulemaking.  Did I write that?

1 MR. BALLO: Right.

2 MR. COHEN: The current round that we're  
3 currently in and then another round starting in 2020.

4 MR. BALLO: Okay. Thank you for clarifying.  
5 The question I wanted to ask, and I -- it strikes me  
6 as reading this that the slide behind you that  
7 describes the position on IRLs is that your argument  
8 is that the plain text of the statute unambiguously  
9 forecloses covering reflector lamps as general service  
10 lamps. Is that correct?

11 MR. COHEN: That is our view that the  
12 statute -- Congress explicitly said IRLs are not GSILs  
13 or GSLs.

14 MR. BALLO: Thank you.

15 MR. COHEN: I think they said it both  
16 places.

17 MR. BALLO: Thank you.

18 MR. RAMIREZ: Phi?

19 MR. NGUYEN: Phi Nguyen, Energy Solutions.  
20 Thanks Joe and David. I do appreciate feedback from  
21 manufacturers in this process. However, I feel like  
22 we've had this discussion before. So I just wanted  
23 some clarifications from DOE, right? So there -- the  
24 way I see it, there's two different decisions that DOE  
25 made in 2017. One is whether they could legally

1       discontinue exemptions for reflector lamps, and the  
2       other was whether reflector lamps were indeed general  
3       service lamps, certain general service applications.  
4       So you state here that you no longer adhere to the  
5       belief that DOE may discontinue exemptions, but are  
6       you also saying that these lamps are not used in  
7       general service applications?

8               MR. COHEN:   So I don't think I said either  
9       of those things.  I think what I said was that we --  
10      in looking back, we think Congress was clear that  
11      incandescent reflector lamps are not GSLs.

12             MR. NGUYEN:   So is DOE walking --

13             MR. COHEN:   And they're excluded for GSLs.

14             MR. NGUYEN:   -- back on whether reflector  
15      lamps can be used in general service applications?

16             MR. COHEN:   It's not a question that we've  
17      looked at or answered in this process.  The simple  
18      question is, whether they are defined as being GSLs or  
19      GSILs and the statute precludes that.

20             MR. RAMIREZ:   Okay.  John?

21             MR. AUGUSTINO:  John Augustino, Honeywell.  
22      So if I'm understanding this correctly, you're saying  
23      that it's not that you don't think there should be  
24      efficient applications in these, that as a matter of  
25      rule or law, they should not be included.  So if this

1 notice is saying they are not included, the question  
2 for the public is, what is going to happen to those?  
3 So if this notice is only identifying they're not  
4 included, as far as the industry is concerned, as far  
5 as the public is concerned, it is very clear what the  
6 efficiency standard is for the bulbs that are  
7 included. Is there any effort underway by DOE for  
8 efficiency standards that can be announced within the  
9 short-term as to what those efficiency standards for  
10 those bulbs would be? Or is the industry left to not  
11 know what's going to be available or the standard come  
12 2020?

13 MR. COHEN: So separate out two things  
14 there. One, for purposes of 2020, number one, we  
15 don't think there is a sales prohibition that applies  
16 on January 1, 2020. But even if there were, that's a  
17 different question than what happens with respect to  
18 IRLs in our mind. As Steve Rosenstock pointed out,  
19 there is a statutory authority to look at IRLs and  
20 whether standards should be amended for those  
21 particular types of lamps. I don't recall off the top  
22 of my head whether, in our regulatory agenda, which is  
23 where we put out our plan for regulatory actions  
24 whether we have IRLs on the agenda coming up. I just  
25 don't recall. And -- but if -- that would be the

1 place to look where --

2 MR. RAMIREZ: Okay.

3 MR. COHEN: -- in our -- that comes out  
4 every six months as a government wide document where  
5 every agency puts out their plan for upcoming  
6 regulations.

7 MR. AUGUSTINO: But timing wise, allowing  
8 this NOPR to go into effect without having that  
9 stipulated is a huge gap that creates uncertainty in  
10 an entire industry for a significant -- to Noah's  
11 point -- for a significant amount of applications,  
12 which has multiple iterations of conditions that are  
13 uncertain in the market that we can't move forward  
14 without that being clear. So to do A without B is  
15 kind of disconnected.

16 MR. COHEN: So I appreciate that. I -- our  
17 job here or our intent here is to try to eliminate  
18 confusion and provide clarity. So to the extent that  
19 you can provide some data about that, that would be  
20 very helpful. And the point that we're making here  
21 is, they're not -- these types of lamps are not  
22 general service lamps and there isn't a backstop that  
23 applies. So we want to be clear about that in this  
24 rulemaking proceeding.

25 MR. AUGUSTINO: But if --

1                   MR. COHEN: You know, if you can help us  
2 understand what the implications are for IRLs, just  
3 generally under our authority, that would be helpful.

4                   MR. RAMIREZ: I have Noah and Dave. But  
5 before I loop back around to them, is there anyone  
6 else that has not yet had a chance to make a comment  
7 that wishes to do so on this topic? All right. Noah?

8                   MR. HOROWITZ: Thank you. Noah Horowitz at  
9 the NRDC. Dave, I just want to respond to your  
10 comments and express our appreciation for all the  
11 innovation and the great LED products that are out  
12 there in here we're talking about the reflectors.  
13 You're really responding there. I want to speak to a  
14 comment you made that I think is incorrect. You said  
15 the regulations in the definition only apply to  
16 omnidirectional bulbs. Those words are never said  
17 anywhere there. So let's be careful there. Also, the  
18 European regulations cover directional and  
19 nondirectional lamps and we think that's the right  
20 thing to do. These are very common products in our  
21 homes.

22                   And in terms of, yes, the market is  
23 responding. These are flying off the shelves, the  
24 LEDs. But the reality is -- well, I don't need to  
25 pull out my prop, but these inefficient products are



1 sold in multipacks at very low first cost. So for  
2 \$1.50 or so, you can buy the incandescent reflector.  
3 And as you pointed out, 25 percent or more of the  
4 market is still buying the inefficient products and  
5 that's exactly why we need to have standards to remove  
6 the remaining inefficient products from the market.

7 Thank you.

8 MR. RAMIREZ: Okay. Just let me get Dave,  
9 then back to John.

10 MR. AUGUSTINO: A quick clarification on his  
11 point though, that 25 percent represents the entire  
12 bulb market. So when you take into account that A  
13 lines are the largest, that 25 percent could represent  
14 a very large percentage of the reflectors. So we've  
15 got to recognize the reality of the market segments  
16 when we're talking about that.

17 MR. HOROWITZ: I agree. The reflectors  
18 might even be a larger percent that are incandescents.

19 MR. RAMIREZ: And I believe that's some of  
20 the data that you all would like to receive?

21 MR. HOROWITZ: Mm-hmm.

22 MR. RAMIREZ: Okay. Thank you. Dave?

23 MR. GATTO: There's a lot there. So what I  
24 was originally going to just mention more, John, in  
25 case you're unaware, there's actually -- there is a

1 standard for IRLs. We had a rulemaking that I think  
2 ended in 2014 or 2015, but it comes back up again in  
3 the next year or so and it may -- Noah and I were  
4 talking about this earlier today -- being something  
5 that maybe ASRAC can take a look at since it may be  
6 something worth negotiating. But in answer to your  
7 question, I did not mean to misstate. However, I will  
8 say that what it does say very clearly, I think this  
9 text was up on the screen at one point, lamps that  
10 would serve to replace GSILs, it doesn't say anything  
11 about general service applications.

12           It doesn't say anything about different  
13 shapes or sizes. It says, the secretary may consider  
14 products that could be used to replace GSILs, not --  
15 and a reflector, just from a technical standpoint, is  
16 a completely different lampshade. So if you were  
17 going to put a reflector in a table lamp, you will not  
18 get the result. I'm not disagreeing with you that  
19 there are other ways to light a room, but if I  
20 misspoke, it wasn't intentional. What I was really  
21 aiming for was, GSILs is what Congress pointed back at  
22 us with the Secretary was supposed to consider, not  
23 general applications, general service applications,  
24 general lighting applications, those don't appear  
25 anywhere to my knowledge in the EISA.

1 MR. RAMIREZ: Okay. Patrick?

2 MR. SAXTON: Okay. Pat Saxton, California  
3 Energy Commission. My personal opinion is that  
4 Congress was pretty clear they wanted DOE to look at a  
5 broader scope than what Dave just described. And I  
6 think it's not arguable that general service lighting  
7 applications, if you will, must include more than just  
8 omnidirectional lamps. It's very common in new  
9 construction for residential, for a long time that  
10 there's all manners of areas in a house that only have  
11 ceiling lighting. We'd all agree that in commercial  
12 applications, linear fluorescents called general  
13 service fluorescent lighting is lighting that comes  
14 from the ceiling. So in a room that only has  
15 downlights, it's literally the only light in that  
16 room. How is that lighting anything but general  
17 service lighting?

18 MR. RAMIREZ: Okay. If there's no  
19 additional comments, Dan, next one?

20 MR. COHEN: So next -- the next topic is the  
21 candelabra base lamps, and this is quite similar to  
22 the prior topic. If you remember earlier when we had  
23 the definition of general service incandescent lamp on  
24 the screen, the basic definition of a general service  
25 incandescent lamp had it required to be of medium

1 screw base. So just as a matter of law, a candelabra  
2 base is a different base. It is not a medium screw  
3 base. So and in addition, we saw the data that came  
4 in through the NODA that we published in 2017, which  
5 the premise of the rulemaking that we had published  
6 back in January of 2017 on the definitions assumed a  
7 certain level of sales of candelabra base lamps, which  
8 turned out to be wrong by almost a factor of two.

9 In part, that's because, of course, as I've  
10 mentioned earlier, we have this prohibition on being  
11 able to gather data because of the appropriations  
12 rider. So we were sort of assuming, based on the  
13 limited data that we had. So finding out that we were  
14 wrong was, I guess, not surprising. But when you  
15 combine those two, the fact that, as a legal matter,  
16 the definition of general service incandescent lamp  
17 says it has a medium screw base and that we were wrong  
18 in terms of the sales data. There was -- we didn't  
19 believe that continuing candelabra base lamps was in  
20 the definition of general service lamp was either  
21 authorized or appropriate.

22 MR. RAMIREZ: Okay. Any comments? Phi?

23 MR. NGUYEN: Yeah. Phi Nguyen, Energy  
24 Solutions on behalf of the California IOUs.

25 We don't agree with that interpretation.

1 Yes, GSILs typically have a medium screw base, but  
2 general service lamps are supposed to also capture  
3 CFLs, general sort of LEDs, OLEDs and those have more  
4 than just base types. So we think that's just a false  
5 calculation.

6 MR. RAMIREZ: All right.

7 Tim, did you have your hand up?

8 MR. BALLO: I did. Just to clarify, I think  
9 that kind of gets at it. But it seems that you're  
10 saying a lamp cannot be a general -- well, an  
11 incandescent lamp -- maybe that's what you're saying  
12 -- cannot be a general service lamp if it is not also  
13 a general service incandescent lamp. Is that  
14 accurate?

15 MR. COHEN: No. We're saying that what we  
16 were tasked with looking at was whether the exclusions  
17 from general service incandescent lamps should be  
18 reconsidered. But in order to do that, we have to  
19 take what Congress defined as a general service  
20 incandescent lamp, and that includes for purposes of  
21 that category only medium screw base, not candelabra  
22 base.

23 MR. BALLO: Yes. But the statute also  
24 authorizes DOE to cover additional lamps, general  
25 service lamps. So I'm wondering how you square --

1                   MR. COHEN: So that's -- right. Again, it's  
2                   the -- what we were directed to do was look at the  
3                   definitions and the exclusions from general service  
4                   incandescent lamps, and that says medium screw base.

5                   MR. BALLO: Thanks.

6                   MR. RAMIREZ: Chris?

7                   MR. GRANDA: Chris Granda, The Appliance  
8                   Standards and Awareness Project.

9                   In drafting this NOPR -- well, first of all,  
10                  let me step back for a second. The history of  
11                  lighting energy efficiency regulation and the  
12                  subsequent evolution of the lighting market has many  
13                  examples of niche products suddenly growing out of  
14                  proportion to their former volumes in the market in  
15                  response to direction provided by regulation. I don't  
16                  think anybody would disagree with that statement. Has  
17                  DOE given careful consideration to what this -- what  
18                  the NOPR -- the effect of the NOPR could be on  
19                  candelabra base lamps, specifically because medium  
20                  base sockets can be converted to candelabra base  
21                  sockets, usually in one direction only. And then, you  
22                  could have a result of dramatically inflated sales of  
23                  candelabra base non GSLs if the NOPR is successful.

24                  MR. COHEN: All right. So I'm not aware of  
25                  the technicals of the second part of that. But in

1 terms of the data, you know, we put out that request  
2 for information in 2017 because again, with -- because  
3 of the existence of appropriations rider, we did not  
4 have data that was really fulsome or complete with  
5 respect to incandescent lamps. And what we got back  
6 with data suggesting that that movement, and you all  
7 have alluded to this, but today, the movement away  
8 from incandescents and towards more efficient lamp  
9 types was in fact happening a whole lot faster than we  
10 had previously believed.

11 So I don't know how it applies with respect  
12 to candelabra in particular off the top my head. But  
13 since everything seemed to be moving faster anyway, I  
14 will assume, but I could be wrong about this and I'm  
15 sure others may have better sense of the market data  
16 here, that the candelabras -- that what you're  
17 suggesting is not, in fact, happening in the market.  
18 It's just the opposite.

19 MR. RAMIREZ: Don, you're after Noah. So  
20 let me get Noah, Don then Dave.

21 MR. HOROWITZ: Thank you. Noah Horowitz  
22 with NRDC.

23 Like we did with the reflectors, again we  
24 assert that candelabra based lamps are commonly used  
25 in general lighting applications. There are several

1     hundred million of these already installed and they're  
2     commonly used in chandeliers and sconces and other  
3     places in the home.

4             The fact that the lamp has a flame shape and  
5     the base has a diameter that's this big instead of  
6     this big, that has no impact at all on the ability to  
7     make an efficient lamp. The inside's still the same.

8     You have a very efficient LED light source inside and  
9     the fact that the cover is a little bit different  
10    shape should have no impact on whether it should be  
11    regulated.

12            I want to point to a few examples again and  
13    one thing I should've said earlier, the examples I'm  
14    providing today are meant to be illustrative. They're  
15    not meant to endorse or single out a particular  
16    company. And I tried to pick multiple companies here.

17            So I have a Sylvania double life, this is a  
18    candelabra base. That's a smaller diameter base.  
19    This is a 60 watt lamp that gives off 525 lumens, and  
20    the cost that's shown here, it's \$7.23 per year to  
21    operate each of the lamps. There's a wide  
22    availability of LED replacements that use a small  
23    fraction of the energy.

24            This one is by Dave's company, Westinghouse.  
25    This only uses seven watts and costs \$0.84, less than



1 a dollar a year to operate. So very, very quick pay  
2 backs and the same exact shape and form factor. And  
3 this also lasts a whole lot longer. And then Feit,  
4 another lighting company has a similar product here  
5 and this product is \$0.66 per year to operate. So  
6 these products are widely available and very, very  
7 cost-effective and long-lasting. Thank you.

8 MR. RAMIREZ: Okay. Don then Dave.

9 MR. BRUNDAGE: I actually had a quick item  
10 on something Chris had said that I would somewhat  
11 question. He talked about easily using a candelabra  
12 base and a standard base. I believe he said 2007  
13 forbids the manufacturer of the conversions between  
14 medium and candelabra base, those sorts of adapters.  
15 Thank you.

16 MR. RAMIREZ: Okay. Dave?

17 MR. GATTO: So, yeah. Don got there for me.

18 Chris, I appreciate that new fixtures  
19 potentially might have candelabra sockets that might  
20 be a replacement for a fixture that used to have a  
21 medium base. But since 2010, DOE's prohibited the  
22 sale of any adapter that would convert a medium base  
23 socket into really anything that would take an  
24 incandescent. We had been manufacturing those  
25 products at the time. We discontinued them in 2010

1 along with everyone else. So fixture marketplace  
2 changes like Patrick mentioned where maybe something  
3 different is getting installed during new  
4 construction, I won't argue that fact. But actually  
5 converting the socket, unless the consumers an  
6 electrician and has a lot of time, that's really not a  
7 risk that's possible.

8 And then the only other thing is that I know  
9 NEMA will provide some additional -- probably under  
10 NDA, Dan -- data similar to what we did in the NOPDDA  
11 (phonetic), but candelabra and specialty lamp  
12 incandescent sales are declining. They're not  
13 necessarily declining quite as fast as a, you know, an  
14 A line lamp.

15 But to Noah's point, there are products  
16 available. Consumers are choosing them and the sizes  
17 and the designs are getting smaller. I still feel  
18 from the very beginning that we've never argued that  
19 it's possible to make more efficient products. What I  
20 do argue is that it's necessary to regulate in a way  
21 where you can only make one.

22 MR. RAMIREZ: All right.

23 MR. ZIMMERMAN: Not to be the guy in the  
24 group --

25 MR. RAMIREZ: Sorry. State your name.

1                   MR. ZIMMERMAN:  -- but -- Scott Zimmerman,  
2                   Silas.  I just wanted to make clear that based on what  
3                   the work we've been doing, there is no equivalence  
4                   between the incandescent bulb and the LED bulb as far  
5                   as its bio optical properties.

6                   MR. RAMIREZ:  Louis?  Then I'll come back to  
7                   Allison.

8                   MR. STARR:  So this is Louis Starr with  
9                   Northwest.  This is Louis Starr at Northwest Energy  
10                  Efficiency Alliance and fortunately, I was -- the  
11                  thing I need -- the props I needed to sit next to, I  
12                  am going to.  So I'm not a lawyer, but I'm trying to  
13                  understand this stuff that's sitting at Noah Horwitz's  
14                  table here.  What is the value proposition for the  
15                  market and for the economy that this inefficient  
16                  product provides over this?  I mean, what's -- why  
17                  would you buy this one as opposed to this one?  What  
18                  value does that provide?  I'm hoping one of the  
19                  manufacturers can help me understand that.  Thank you.

20                  MR. RAMIREZ:  All right.  Alex?

21                  MR. BOESENBERG:  This is Alex Boesenberg  
22                  from NEMA.  I'm not going to answer Louis's question.

23                  Sorry.  The point I would stress and my colleague,  
24                  Mr. Silcox mentioned it already and it follows on with  
25                  Dave Gatto's comment, we see at the end of a walk-

1 through in a rural, one of the topics other than  
2 regulatory action. And when it comes time for the  
3 standards for this topic -- so I'm slightly off-topic,  
4 but I'll be quick -- is that the market is already  
5 moving. We do not need regulation to put the nail in  
6 the coffin. These products are declining in sales  
7 with no indication that they'll suddenly surge and  
8 they'll dive natural accord in a way that the  
9 manufacturers are very well experienced at managing.  
10 Thank you.

11 MR. RAMIREZ: Okay. Before I go back to  
12 Chris, is there anyone else that hasn't had a chance  
13 to comment yet? Oh, that's two. Okay. The other  
14 Chris.

15 MR. PRIMOUS: This is Chris Primous from  
16 MaxLite.

17 Just to answer Louis's question, the value  
18 proposition for the consumer with those types of  
19 products that you asked about -- well, it's a couple  
20 of factors. One, aesthetics. So the product that you  
21 see versus the LED type, it looks different. The  
22 output of the light is different. The performance of  
23 it is going to act different as far as the beam  
24 pattern coming out of it. There's a heat sink in a  
25 lot of the LED products that were shown versus the

1 incandescent. The operation of it may be familiar to  
2 the consumer very different than they would operate  
3 the LED type. The dimmability of it is somewhat  
4 varied. The performance of it as it dims may cause a  
5 different color shift than the LED type. So there are  
6 number of things you can get from the incandescent as  
7 a valid proposition, just to answer that question.

8 Thanks.

9 MR. RAMIREZ: Thank you.

10 Chris?

11 MR. GRANDA: Chris Granda with Appliance  
12 Standards Awareness Project.

13 I just wanted to address a number of the  
14 statements that have been made about the velocity of  
15 the market change. I think it's useful just to state  
16 that what we're talking about is an S curve of  
17 marketed option. Every new product that comes into  
18 the market follows this. We're probably somewhere in  
19 the middle of the S curve of adoption of LED lamps. I  
20 don't think that it's arguable that the adoption rate  
21 for LED technology and lighting will always continue  
22 at the same rate.

23 It will slow down unless a standard is  
24 imposed, and that is the function of standards, to  
25 eliminate that laggard section of obsolete product in

1 the marketplace, so unless you're also making the  
2 argument that there aren't six billion lamps out  
3 there, and that let's say 25 percent of six billion is  
4 less than 1.5 billion, we're still talking about a  
5 very significant amount of product, a very significant  
6 impact on consumers and on the economy at large and  
7 the environment. Thank you.

8 MR. RAMIREZ: Okay. I think we're good.  
9 Closing? Or I'm sorry. We'll have data.

10 MR. COHEN: We have data, so I will yield to  
11 my colleague.

12 MR. RAMIREZ: Thank you, Dan. While Sofie  
13 comes up, I do want to thank everyone for being very  
14 specific and targeted on your remarks. It's helping  
15 the process move along. I think we're doing pretty  
16 good on timing so far, so thank you.

17 MS. MILLER: All right. A few folks have  
18 mentioned uncertainty so far, and I really appreciate  
19 that. That's something that we're hoping to be able  
20 to better analyze as part of this process, and to the  
21 extent that there's any data that's available to any  
22 of you at the table that would help us illustrate the  
23 scope of uncertainty whether we're increasing it as  
24 some have argued or decreasing it as we've been  
25 hearing from other quarters, that would be very

1 helpful to help illustrate some of the effects of  
2 clarifying the applicability of the 2020 backstop  
3 here.

4           So as laid out in the proposal, the way we  
5 put it is that we had been hearing there is  
6 significant uncertainty in the retail market regarding  
7 both scope of lamps that could be available for sale  
8 because we had failed to clarify this in previous  
9 rulemakings, and as a result, certain retail outlets  
10 were not able, as we were hearing, to plan adequately  
11 for any change of stock that may be necessitated in  
12 the future, and this uncertainty was creating costs  
13 for retailers to be able to fill potential open bays  
14 on their shelves or consider whether new products  
15 needed to be moved into those spaces.

16           And so any data or analysis that is in this  
17 NOPR is related specifically to that uncertainty, and  
18 we are looking for ways to fill that gap and would  
19 appreciate data and comments to that extent. There's  
20 a couple -- we have a couple of graphs going forward.

21       Would you guys like me to proceed? Okay. So some of  
22 the data that we presented had to do with sales of  
23 incandescent and halogen lamps. Over time, we're  
24 looking at a brief amount of time here, and we were  
25 focusing on quarterly shipments in the consumer

1 channel which does capture over 90 percent of  
2 shipments of incandescent and halogen lamps.

3 And these are large categories that include  
4 a variety of lamps, many of which we're not  
5 necessarily talking about today, lots of different  
6 specific types of lamps as well, so just keep that in  
7 mind that this is not at breaking out different types  
8 of subtypes of lamps within those categories. It's  
9 more of a big picture view, but to the extent that we  
10 can break out those categories to the extent that you  
11 have available data that would enable us to do that,  
12 we do encourage you to submit it as well because that  
13 would be very helpful for this undertaking.

14 In the consumer channel what we're looking  
15 at includes primarily retail and department stores,  
16 club stores, drug wholesalers and retailers, hardware  
17 stores, home centers and online sales and other retail  
18 as well. I'll just give you one more nudge that  
19 additional data would be helpful. I have one other  
20 chart unless anyone has any comments. Yes? Yes, go  
21 ahead.

22 MR. HOROWITZ: I didn't mean to jump the  
23 gun. Noah Horowitz with NRDC.

24 Sofie, can you help us understand what type  
25 of lamps are covered? Are these just A-lamps or did



1       these also include the lamps we were just discussing  
2       like candelabras and reflectors, which weren't in the  
3       original definition?

4               MS. MILLER:  It's a broad definition, so it  
5       includes A-line but not just A-line.  It includes  
6       several other lamp types that fall within these broad  
7       categories.

8               MR. HOROWITZ:  So it would be great if there  
9       could be more transparency on the source of this data,  
10      so we would like further confidence knowing do these  
11      include reflectors, do these include candelabras  
12      because as we discussed earlier this morning, that's  
13      about half of the sockets, and also, is there similar  
14      data being collected for LED lamps and CFLs, and if  
15      not, why not?

16              MS. MILLER:  We did have data for LEDs, but  
17      they were reported in different unit categories, so  
18      unfortunately, we were not able to compare them in the  
19      same visuals.  That is something that I was hoping to  
20      do, but I think we should be able to do that going  
21      forward if we're able to get that data reported in  
22      comparable units so that we don't have sort of apples  
23      and oranges comparisons.

24              MR. HOROWITZ:  And lastly, if the data's  
25      being supplied by NEMA, which recognizes the leading

1 trade association for the lighting manufacturers,  
2 there are a lot of sales that are done by companies  
3 that are not NEMA members, so hopefully you can get  
4 data from them as well, or if it's only from NEMA,  
5 then please indicate that.

6 MS. MILLER: I believe that these data  
7 include not just domestic shipments, which would be  
8 NEMA members, but also a smaller portion as well,  
9 which are the result of international shipments.

10 MR. HOROWITZ: Thanks.

11 MR. RAMIREZ: Phi?

12 MR. NGUYEN: Phi Nguyen, Energy Solutions,  
13 California IOUs.

14 Can you clarify if this chart is supposed to  
15 be suggesting that lamps are switching out of  
16 incandescent and halogen technology into other  
17 technologies, or if overall shipments of lamps are  
18 dropping, for example, for integrated lighting or  
19 other sorts of lighting options?

20 MS. MILLER: This is not a graph that's  
21 meant to indicate any sort of causal relationship.  
22 It's just displaying the data that we're looking at,  
23 and part of the goal was to illustrate the scope of  
24 any potential uncertainty that we're dealing with now,  
25 and that's part of the reason why we're hoping to

1 indicate yes, these are going down over time.  
2 However, there still is a large chunk that's accounted  
3 for in shipments, and this will help us illustrate the  
4 scope of any potential uncertainty that some retailers  
5 may be dealing with.

6 MR. NGUYEN: I see. Thank you.

7 MR. RAMIREZ: Joe?

8 MR. HOWLEY: Joe Howley, GE.

9 I'd just like to add a comment that as you  
10 look at this chart, you'll notice there seems to be a  
11 slight blip up in the fourth quarter of 2017, but the  
12 fourth quarter is always a heavy lamp demand month  
13 because that is entering into the dark time of year  
14 when a lot of people need light bulbs, and retailers  
15 tend to stock up on light bulbs, and so you have to  
16 really compare quarter to quarter. So if you look at  
17 fourth quarter 2017 versus fourth quarter 2016, that's  
18 a way to look at this chart is quarter to quarter.  
19 But you see there is a dramatic decline of  
20 incandescents in those two years, and I can mention  
21 that decline now is continuing as we head into 2018  
22 and 2019 as well. Thank you.

23 MR. RAMIREZ: Thank you.

24 MS. MILLER: Thanks. That's helpful. We  
25 did hear from certain retailers that they did tend to

1 place a lot of purchase orders in the fall, so that  
2 does comport with what we had heard, and we can keep  
3 that in mind for future data displays going forward.

4 MR. RAMIREZ: Okay. Let me get to Patrick  
5 and then Chris.

6 MR. SAXTON: Yeah, Pat Saxton, California  
7 Energy Commission.

8 Just clarification of the verbiage in the  
9 NOPR in the paragraph that precedes this graph. It  
10 says 2018 shipments, and then the graph has just 2018  
11 Q1 and Q2, and the numbers in the NOPR seem to add up  
12 to just the Q1 and Q2. Can you clarify that?

13 MS. MILLER: We did not have access to -- at  
14 the time did not have access to the Q3 and Q4 shipment  
15 data, which is why it's not listed because it was not  
16 in existence at the time, but hopefully at the time  
17 that we are looking to be finalizing some of this  
18 analysis, we will have access to those as well.

19 MR. SAXTON: Understood. I appreciate that.  
20 I'm suggesting that the language, the verbiage in the  
21 NOPR then should say despite this decline in the first  
22 half of 2018 shipments equaled these or in Q1, Q2  
23 2018, the shipments equaled these.

24 MS. MILLER: I understand. Thank you.

25 MR. RAMIREZ: All right. I have Chris, and,

1 Mary, did you have your hand up?

2 MR. RAMIREZ: Okay. Chris, Mary and, Noah,  
3 I didn't forget you. I'm putting you in the second  
4 round.

5 MR. HOROWITZ: I'm good.

6 MR. RAMIREZ: Okay. Good. Okay.

7 MR. HOROWITZ: Yeah, Pat asked my question.

8 MR. RAMIREZ: I'm sorry. Okay. All right.  
9 Mary?

10 MS. ANDERSON: So one thing to note in this  
11 graph that I think also contributes to this uptick in  
12 sales is also utility incentive programs because  
13 that's usually when, to be honest, we start to  
14 actually make our goal, so I think that's helpful to  
15 know. The other thing I think that's helpful to know  
16 is that most of those lighting incentives are going  
17 away across the U.S. because they're no longer cost  
18 effective, and I think that also could impact how this  
19 works in the market, so thank you.

20 MS. MILLER: And just as a follow-up, you  
21 were saying that's occurring in Q4 as well?

22 MS. ANDERSON: So usually the bulk of the  
23 incentive work usually happens end of third quarter,  
24 beginning of fourth quarter as far as the lighting  
25 incentives going away. Based on what I know so far, I

1 believe in California or at least for PG&E, we expect  
2 that our lighting incentives will go away in 2020.

3 MS. MILLER: Thank you.

4 MR. RAMIREZ: Okay. All right. I think we  
5 have one more graph?

6 MS. MILLER: Yes, and this is just to  
7 illustrate the breakdown of what we're talking about  
8 in the consumer channel. I already described what the  
9 definition of that is, but if we're looking at the  
10 specifics in terms of where are -- if we're thinking  
11 of scope -- which retailers or types of retail might  
12 be those most affected, and the majority are captured  
13 by home centers and discount variety and department  
14 stores.

15 This is probably not very easy to read. I  
16 apologize. With Federal Register, I think you can't  
17 publish in color, so sorry about that, but I think I  
18 could probably get you guys a color version if anyone  
19 would find that more helpful, so just let me know if  
20 you'd prefer that. I kind of hate grayscale.

21 MR. RAMIREZ: Yes, go ahead.

22 MR. AUGUSTINO: Just one point of  
23 clarification for going forward with this data to the  
24 point Mary raised. We're in an artificial environment  
25 here in that utility programs and other sponsor-based

1 incentive programs have focused very heavily on the  
2 lighting market, particularly the consumer lighting  
3 market, so when you're comparing the incandescent  
4 sales to the LED sales, when you're comparing the  
5 changes over time, it's not an accurate reflection to  
6 just look at that as the natural market because the  
7 market's being pushed, and there have been several  
8 studies that have shown significant backsliding when  
9 those incentives are removed, including one in the  
10 Northwest Efficiency Alliance, so --

11 MS. MILLER: Do you have -- I'm sorry. I  
12 didn't mean to interrupt.

13 MR. AUGUSTINO: I don't have specific  
14 studies. I can get you studies from third parties  
15 that do show back sliding when incentives are removed,  
16 but in terms of doing the analysis of sales, in order  
17 to have an accurate picture, you would have to show  
18 sales data in subsidized markets versus sales data in  
19 unsubsidized markets and compare them separately in  
20 order to see what the true organic market is doing.

21 MS. MILLER: Thank you. That's good to know  
22 and very helpful, and when I'm thinking through what  
23 you just said, I think it would be also helpful to  
24 know the presence of certain incentive programs in  
25 different states and when they were introduced such

1       that we could look to see if there are any changes, so  
2       keep that in the back of your minds if that's data  
3       that anybody has available or a study that somebody  
4       has seen.

5               MR. AUGUSTINO:  If you're asking for data on  
6       where there are incentive programs, the ACEEE has a  
7       fairly extensive database, so --

8               MS. MILLER:  Thank you.

9               MR. AUGUSTINO:  That might be an easy source  
10      to get it all at once.

11              MR. RAMIREZ:  Okay.  Al, before I get you,  
12      Chris, I think you had something?

13              MR. GRANDA:  Yes, Chris Granda from the  
14      Appliance Standards Awareness Project.  I just wanted  
15      to add to Mr. Augustino's comments.  I think that's  
16      absolutely true.  In general, we're talking -- I think  
17      we're around \$8 billion a year in total utility  
18      program budgets these days, and depending on the  
19      state, as much as 50 percent of that may go to  
20      lighting programs and a good portion of that to  
21      residential lighting programs, so we're talking  
22      about --

23              MR. AUGUSTINO:  Up to 70.

24              MR. GRANDA:  I'm sorry?

25              MR. AUGUSTINO:  Up to 70 depending upon the



1 market.

2 MR. GRANDA: Up to 70 depending on the  
3 market, so definitely above a billion dollars a year  
4 in incentives going to CFLs and LEDs, primarily LEDs  
5 these days, and as somebody who has spent about 30  
6 years working with those programs, the first programs  
7 of any sort showed up in the early 90s, but the  
8 innovation, that means that they've had this huge  
9 effect on the market, was the upstream buy down which  
10 kicked in the late 90s and has been the dominant  
11 program design since then.

12 MR. RAMIREZ: All right. Let me get to Alex  
13 and then Steve.

14 MR. BOESENBERG: Alex Boesenberg of NEMA.

15 We've stated before that NEMA does not  
16 collect sales data by state or region due to our  
17 distribution methods, so I'm making a suggestion that  
18 unfortunately I can't answer, but, Sofie, I think to  
19 your question our very area here that we live in might  
20 be a useful example if you're able to talk to  
21 retailers somehow. PEPCO has offered LED rebates in  
22 DC and Maryland for a long time, Dominion Virginia  
23 Power for whatever reason doesn't -- pretends they  
24 don't or it doesn't exist, so there are a few of us, I  
25 won't say it's me, who drive into DC to buy LEDs

1 sometimes if they want a more expensive option or a  
2 newer product, but for the average amount of sales,  
3 perhaps some of those larger retailers that I know  
4 you've spoken to might be able to give some clue as to  
5 that delta.

6 MS. MILLER: Thank you. I appreciate that.

7 MR. RAMIREZ: Okay. Steve?

8 MR. ROSENSTOCK: Steve Rosenstock, Edison  
9 Electric Institute. Again, if you're looking for  
10 incentive data, the Dsire USA database is a very good  
11 resource as well. Nothing against ACEEE database, but  
12 Dsire USA, they've been doing it as well, and they  
13 have a lot of good data if you're looking for  
14 something like that. Also with the incentive  
15 programs, yes, a lot has been on lighting, but  
16 remember, depending on the utility, again, there's  
17 going to be a significant split between commercial  
18 versus residential versus I'll say  
19 industrial/agricultural lighting depending on the  
20 region of the country that they're in.

21 So yes, utilities do spend a lot with  
22 incentive programs on lighting programs, but there is  
23 a definite break out between residential versus  
24 commercial in terms of what kind of impacts they want  
25 to try to have in terms of cost effectiveness.

1                   Thanks.

2                   MS. MILLER: And before you go, can you  
3 restate the name of that website, something USA?

4                   MR. ROSENSTOCK: Yes, Dsire USA, D-S-I-R-  
5 E.ORG, I believe it is. .org. Yes, D-S. D-S-I-R-E,  
6 please.

7                   MS. MILLER: I've got it.

8                   MR. ROSENSTOCK: Thank you.

9                   MR. RAMIREZ: I have Phi, Noah and Patrick.

10                  MR. NGUYEN: Phi Nguyen, Energy Solutions on  
11 behalf of the California IOUs.

12                  I just want to highlight one of the key  
13 take-aways here because this data, the pie chart  
14 showing those different portions. As several people  
15 have noted, it does not break down into residential  
16 versus commercial, lamp types --

17                  MS. MILLER: This is all residential. This  
18 is consumer.

19                  MR. NGUYEN: Okay. Okay.

20                  MS. MILLER: So all of the data that's  
21 included in here is consumer and that's because 90  
22 percent of the shipments or more than, depending on  
23 the year and depending on the product type of these  
24 halogen and incandescent lamps that we were tracking  
25 were going into the consumer channel, so by focusing

1 on that, we were able to capture most of the data.

2 MR. NGUYEN: Yeah, thanks for that  
3 clarification. It also doesn't capture which portion  
4 of these are really being incentivized, so I would  
5 caution DOE from using these specific proportions in  
6 determining which segments were most affected by  
7 uncertainty.

8 MS. MILLER: Thank you.

9 MR. RAMIREZ: Noah?

10 MR. HOROWITZ: Yeah, Sofie, can you go back  
11 one slide please?

12 MS. MILLER: You bet.

13 MR. HOROWITZ: This is Noah Horowitz with  
14 NRDC again.

15 I want to reiterate our respectful request  
16 that there be a list published of the lamp types that  
17 are being included in this analysis. As it's  
18 presented here, it's simply a black box, and it's  
19 really hard for us to provide informed comments on  
20 that. Secondly, I'd like to reiterate the comment  
21 that Mary and others have made that while yes, LED  
22 sales have increased and halogen and incandescent  
23 sales have declined dramatically that a lot of the  
24 market dynamic is due to these sizeable rebates that  
25 are available for the LEDs.

1           Once those go away, incandescents and  
2           halogen sales in the absence of standards may well  
3           rise, nowhere near prior levels, but even more than  
4           the 25 percent minimum that's been discussed today.  
5           We're going to see more of those being sold. Thank  
6           you.

7           MR. RAMIREZ: Okay. I have Patrick, Don,  
8           Dave and Chris.

9           MR. SAXTON: So I just wanted to -- Pat  
10          Saxton, California Energy Commission.

11          We've talked a bit in this segment about  
12          incentives and subsidies. I would just point out  
13          those are almost exclusively funded by utility rate  
14          payers. Those are the same consumers who would  
15          benefit from these regulations and the energy savings  
16          here, so it's a double dip out of the consumers  
17          pocket, and to the extent that we want to talk about a  
18          split between residential and commercial incentive  
19          programs, assumably, the commercial problems are  
20          funded by a public goods charge, which adds to their  
21          utility bill which is then passed through the consumer  
22          who buys the goods and services from that business.  
23          These are consumer charges, and now we're taking away  
24          consumer sales.

25          MR. BRUNDAGE: We talked about a couple of

1 issues here.

2 MR. RAMIREZ: Don, could you just state your  
3 name?

4 MR. BRUNDAGE: Don Brundage Southern  
5 Company.

6 We're one of the larger electric utilities  
7 in the southeast, and in the past we have had some  
8 significant residential lighting programs. We have  
9 substantially reduced lighting programs and  
10 residential lighting programs for the simple reason  
11 that you can declare victory and go home. The market  
12 has taken over, and those incentives are not very  
13 necessary. I will also -- because I didn't know where  
14 else to put in this discussion, the discussion of  
15 candelabra bulbs, and it was easy to switch out and  
16 use LED.

17 I don't like to do anecdotal, but I think  
18 it's valid here. I bought some LED candelabra bulbs,  
19 and they would not work in my older candelabra  
20 chandelier because with the electronics and all, they  
21 get fat quicker, and you couldn't fully screw them  
22 into the bulb because their form factor is different  
23 than the incandescent. I don't know how common that  
24 is, but there are at least some older light fixtures  
25 you cannot use a standard LED bulb in. Thank you.

1                   MR. RAMIREZ:   Okay.   I have Dave, Chris,  
2   then Louis.

3                   MR. GATTO:   So it's funny, I should sit here  
4   and say, Don, go ahead and answer my question, so I do  
5   agree -- Dave Gatto, Westinghouse Lighting.   Thank  
6   you, Alex.   That's why I'm always happier here.

7                   So first off, Sofie, I would actually  
8   encourage you with the retailers you're working with,  
9   and obviously we can't provide that data, but we'll  
10   encourage our retailers to hopefully share some data  
11   to maybe get data from regions that do and don't have  
12   incentives.   I do think that's valid to look at.   I'm  
13   going to actually second what Don said.   In markets  
14   where there is no incentive and in some cases has not  
15   been ever, particularly in the southeast where it just  
16   hasn't been common, LEDs are still outstripping  
17   incandescent lamps.   Is the rate as fast?   No, because  
18   you've got this distortion from incentive rebates in  
19   some places, but what I will tell you is that not just  
20   Westinghouse, multiple manufacturers have products on  
21   the shelf that are cost competitive with halogen  
22   without a single penny in incentive.

23                  In the early days, we needed the help, and  
24   for specialty lamps, I think it's still needed to  
25   encourage consumers to make the switch, but for the

1 traditional, A-line type product, there are options  
2 available to consumers that are cost competitive with  
3 halogen without any incentive monies.

4 And then the other thing, Don, is more on  
5 the form factor, because if not, Noah or someone would  
6 probably say it, I think that's like a four gen old  
7 version of our lamp.

8 Over the last two years, the industry, not  
9 just us, has done a great job in getting where we can  
10 products to fit the form factor. So the traditional  
11 candelabra torpedo flame tip, most of us have a  
12 product that is almost exactly the same form factor.  
13 When you get into some of the other specialty sizes,  
14 especially smaller ones, it's tough, but the  
15 experience you had was common maybe a year and a half  
16 ago. I don't think it's as common now. I think that  
17 part of what happens is it takes a while for products  
18 to sell through on the shelf and then the consumer  
19 that goes in may not be getting the most recent  
20 technology.

21 MR. RAMIREZ: Let me get Chris, Louis and  
22 then Joe.

23 MR. GRANDA: Chris Granda, Appliance  
24 Standards Awareness Project.

25 First, a quick clarifying question and then



1 a comment. I'd like to add my voice to the request  
2 for more detail about the specific lamps that are in  
3 the graphics, but just to be clear, are both graphs  
4 talking about the same basket of products?

5 MS. MILLER: Yes. I'll just double check  
6 it. Let me say yes with a footnote. I'm pretty sure,  
7 and then let me double check and get back to you.

8 MR. GRANDA: Okay. Thank you, and then the  
9 other perspective, I guess, on utility energy  
10 efficiency programs, I think that Mr. Brundage  
11 represents the perspective of one kind of electric  
12 utility --

13 MS. MILLER: Oh, can I amend?

14 MR. GRANDA: Yes.

15 MS. MILLER: The pie chart is only  
16 incandescent shipments by retail type whereas the bar  
17 graph was incandescent and halogen.

18 MR. GRANDA: So does that mean that the pie  
19 chart dramatically under-represents A-type lamps  
20 because they would probably be covered by --

21 MS. MILLER: If I recall correctly,  
22 including halogen as well did not change the  
23 distribution significantly at all, so I don't believe  
24 that's the case.

25 MR. GRANDA: Okay. Thank you. Thank you

1 for that.

2 MS. MILLER: And I did interrupt you. Did  
3 you have a -- finish.

4 MR. GRANDA: Actually, I would like to cede  
5 my time on this question to Mr. Horowitz --

6 (Laughter.)

7 MR. GRANDA: -- who has a clarification to  
8 the clarification.

9 MS. MILLER: Granted.

10 MR. HOROWITZ: Thank you. Sorry about that.

11 MS. MILLER: I always wanted to do that.

12 MR. HOROWITZ: Noah Horowitz, NRDC. Sofie,  
13 is it right then that this pie chart does not include  
14 the sale of halogen lamps?

15 MS. MILLER: That's right.

16 MR. HOROWITZ: So with the first tier of  
17 EISA, the A-lamps that were incandescents have become  
18 halogens. It's illegal to sell the 100, 75, 60 and 40  
19 so almost all the halogens being sold in the A-lamp  
20 form --

21 MS. MILLER: Oh, you know what --

22 MR. HOROWITZ: So have a look at that, and  
23 again --

24 MS. MILLER: No, no. You're right. This  
25 does include halogen as a subset. I apologize. I can

1 followup with a clarification because I think the  
2 title of that graph didn't translate over from our  
3 Federal Register notice, so let me followup with you  
4 guys just to confirm because yes. Yes, that does.  
5 Thank you. I appreciate that.

6 MR. HOROWITZ: So in general, just a list of  
7 assumptions where the data came from and a break out  
8 of incandescent, halogen, LED, reflector, candelabra  
9 would be hugely helpful. Thanks.

10 MR. RAMIREZ: All right. Let me get --

11 MR. GRANDA: Can I finish the comment that I  
12 had on the utility programs?

13 MR. RAMIREZ: I'm keeping an eye on you two.  
14 (Laughter.)

15 MR. RAMIREZ: All right. Go ahead.

16 MR. GRANDA: Chris Granda. One of the tasks  
17 that ASAP has undertaken is to collect information on  
18 this DOE NOPR and the standards process regarding GSLs  
19 in general and communicate that to the energy  
20 efficiency community at large but particularly the  
21 program development and implementation community, and  
22 there is a great deal of anxiety at U.S. electric  
23 utilities, many of whom are still very dependent on  
24 their residential energy efficiency programs to meet  
25 their energy savings goals. The uncertainty that this

1       NOPR injects into their planning is profound, and we  
2       get that message all the time. Thank you.

3               MR. RAMIREZ: All right. Let me get  
4       Louis --

5               MS. MILLER: Any information that you have  
6       to illustrate the scope of that would be helpful  
7       throughout the comment process, so just keep that in  
8       mind. Hearing about uncertainty is helpful, but  
9       unless we know really what the scope of that is,  
10      there's not a ton we can do with it, so that would be  
11      extremely helpful if you could do so.

12              MR. GRANDA: So I gave multiple webinars and  
13      other presentations last year to groups of program  
14      developers and implementers. I have one on Monday  
15      next week and another couple in April. I can provide  
16      you information on all of that.

17              MS. MILLER: I'd like that. Thanks.

18              MR. RAMIREZ: Louis, Joe and then before I  
19      go back to Alex, I'll see if there's anyone else that  
20      has not yet made a comment.

21              MR. STARR: So this is Louis with Northwest  
22      Energy Efficiency Alliance.

23              So some of the things that you're talking  
24      about -- so NEEA has spent quite a bit of time about  
25      trying -- we sort of separate out the difference

1     between the program and what the natural occurring  
2     effect would be without incentives, and then we also  
3     track the -- we have some clever ways of tracking bulk  
4     cost with how they're priced, so we can get some  
5     general trends. And the other thing you know is that  
6     the cost of electricity in the northwest is more  
7     closer to what the national average -- probably eight,  
8     nine cents a kilowatt, so it tends to be more  
9     represented.

10            So I think maybe com of the protections of  
11     the information you could be -- I don't know exactly  
12     what the word -- project what's happening in the  
13     northwest as, you know, onto the rest of the U.S. So  
14     potentially we'll have to think about maybe how we  
15     could provide that information.

16            The other thing I would argue, so thanks,  
17     Chris, the other Chris -- Chris from MaxLite. One of  
18     the things he indicated that there's different  
19     performance factor for the incandescent version of the  
20     -- I think in this case it's candelabra bulbs, but one  
21     of the things I would suggest there that really --  
22     most consumers are not going to know about beam angle.

23            They may know about color temperature and  
24     some things like that, but primarily a lot of the  
25     people are buying the product because it's cheaper.

1 And so to that point I would also say the idea that  
2 the market's going to transform itself and eventually  
3 nobody will buy the inefficient product, we have an  
4 example of T12 where that market is booming and the  
5 inefficient products is increasing with time, so as  
6 long as there's a bad product out there and it's  
7 cheap, people are going to buy it, so that's where  
8 role of DOE could have to help us out to get  
9 inefficient products out of the market such we achieve  
10 energy efficiency, so thank you.

11 MR. RAMIREZ: All right. Let me get Joe,  
12 Mary and then Alex.

13 MR. HOWLEY: Joe Howley, GE.

14 I wanted to just address a couple of  
15 statements. One was from a while ago. I think it was  
16 mentioned that somehow the market would go backward if  
17 this regulation was changed, and that is greatly  
18 overstated and inaccurate. The issue with this  
19 product, it's very long lived, so once these LEDs get  
20 into sockets, they're going to be there for a long  
21 time, which means there's a smaller and smaller market  
22 that we have available to sell incandescent  
23 technology.

24 We don't see any evidence it could possibly  
25 go backward, and as more and more products come out

1       that fit better and are even less expensive, all we  
2       see is the speed at which this is happening. The  
3       market is changing on its own absent of whatever  
4       regulation DOE may pass. It is moving towards LEDs.  
5       It's not going to go back to an older technology at  
6       this point. As Don mentioned, declare victory. We're  
7       getting there, and the market's going to move there  
8       with or without this activity.

9               The other comment -- I think you mentioned  
10       T12 fluorescent lamps. I can verify that the market  
11       is not booming. Our sales continue to decline  
12       rapidly, and there will be very few T12 lamps sold in  
13       the market we roll through the next few years. That  
14       market is small and declining rapidly. Thank you.

15              MS. ANDERSON: Mary Anderson, PG&E.

16              To address uncertainty, at least from the  
17       utility's perspective, we are currently planning our  
18       incentive programs. And as we plan, we have to  
19       understand what measures are available, what the  
20       industry standard practice is or what code is. And as  
21       we do this, if we don't know that it's really hard to  
22       create, first of all, an incentive program, and  
23       estimate some level of energy savings. So as we've  
24       been talking to our folks, I have shared with them my  
25       perspective that we believe the expanded definitions

1       should and hopefully will go through, but it has  
2       caused a lot of extra time and a lot of extra stress,  
3       and there has to be additional contingency plans just  
4       in case, and those additional contingency plans will  
5       likely cost our consumers another \$50 million a year,  
6       which is significant. Thank you.

7               MR. RAMIREZ: Alex?

8               MR. BOESENBERG: Alex Boesenberg, NEMA.

9               I think a lot of us have spotted or heard  
10       something today that felt like role reversal from the  
11       ways we sometimes talk in proceedings just due to the  
12       way this rulemaking has kind of flipped on its head, I  
13       guess, but the one that I heard and loved and would  
14       echo is -- I wouldn't say love. That's a silly way to  
15       say it, but something I heard that I want to key on  
16       and reiterate is the desire to see more granularity or  
17       more clarification on the data and open up the black  
18       box and document all the assumptions so we understand  
19       how the analysis has been structured.

20              And I hope my esteemed colleagues to my left  
21       here will echo that a month from now in the process  
22       improvement rule meeting because industry's been  
23       asking for that at every rulemaking, and that's why  
24       it's in that rule for consideration now, and just have  
25       that ready to go. Thank you.



1                   MR. RAMIREZ: All right. Let me get Phi  
2 first and then Tim.

3                   MR. NGUYEN: Phi Nguyen, Energy Solutions on  
4 behalf of the California IOUs. I just want to address  
5 this one point in terms of declining incandescent and  
6 halogen sales, I want to know that we were speaking  
7 earlier today about 45 lumen per watt backstop.  
8 Congress was clear on the timeline for this. They set  
9 very, very specific timelines for when 45 lumens per  
10 watt should be imposed. So the whole argument that  
11 you know it's declining and it's going to get there  
12 eventually is the precise reason why Congress made  
13 this into statute, so I don't see how it's a valid  
14 argument.

15                   The second point I want to make going back  
16 to this pie chart here, it does focus a lot on burdens  
17 of retailers currently selling what will be non-  
18 compliant products, but there is also a burden for  
19 retailers who have committed to selling LED products  
20 and more efficient products, so those retailers will  
21 also bear a burden, so I think it does pay off to have  
22 LED data in this as well.

23                   MR. BALLO: Tim Ballo with Earthjustice.

24                   Two quick points. First, I was struck by  
25 the remark by T12s continuing to decline. Ten years

1       ago, we were doing the general service fluorescent  
2       lamp rulemaking, and DOE was urged by the industry  
3       folks, some of them at least, not to even bother with  
4       T12s because the market was going to take care of  
5       those, and here we are 10 years later, and the  
6       market's still trying to take care of them.

7               The other point was to Don's point earlier  
8       about buying a candelabra LED that had difficulty with  
9       a fixture, I was also an early adopter. In 2014,  
10      2015, I bought some candelabra incandescents from a  
11      manufacturer, who I believe is not a member of NEMA,  
12      and found that --

13             MS. MILLER: You mean LEDs?

14             MR. BALLO: I'm sorry?

15             MS. MILLER: Do you mean LEDs?

16             MR. BALLO: Candelabra LEDs, yes, and found  
17      that that manufacturer had also anticipated some  
18      problems with sockets, and so they packaged each lamp  
19      they sold with an adapter to use an incandescent lamp  
20      in a medium-based socket if you had trouble installing  
21      it in your chandelier. I'm not sure how common that  
22      is, but I've looked online, and it's very easy to find  
23      those adapters, so I caution folks about the idea that  
24      there's not going to be or that there isn't a lot of  
25      installation of candelabra in other sockets.

1                   MR. RAMIREZ: David, did you just have quick  
2     remark on that because John was next, but is it a  
3     quick reply?

4                   MR. GATTO: It is because it's actually a  
5     rebuttal.

6                   MS. MILLER: Can you get your mic?

7                   MR. GATTO: Dave Gatto, Westinghouse  
8     Lighting.

9                   It's actually in reply to both Phi and Tim,  
10    so, Phi, first, just so I'm clear and it's clear on  
11    the record unless Dan wants to weigh in, Congress did  
12    a backstop in case DOE didn't do what they were  
13    expected to do, and I'm in complete agreement with  
14    that. Whether it's triggered or not is obviously  
15    something we're not necessarily in agreement on.

16                  However, Congress did not set 2020 as a hard  
17    date. The statute actually calls for a new rulemaking  
18    in 2020 that potentially would go in effect in 2025,  
19    depending on what the Secretary decided to do during  
20    this rulemaking. So I don't agree that it was January  
21    1, 2020, no matter what, and unless I misread the  
22    statute, I think that's actually what it says is that  
23    there's another round of rulemaking that we're  
24    actually about to start even though this one's not  
25    done yet.

1                   In the case of the adapter, Tim, that  
2           adapter is illegal, so if you know who that is --  
3           Laura was here earlier.

4                   (Laughter.)

5                   MR. GATTO: I would actually -- because we  
6           -- this is a challenge for manufacturers, this is  
7           where the Burgess Rider was a problem for us. We  
8           chose to follow the law while other people didn't, and  
9           that creates a competitive issue for legitimate,  
10          credible manufacturers, so whether we agree or not on  
11          what the rule should be, whatever the rule is,  
12          Westinghouse will follow it. If someone else isn't  
13          following it, and you're aware of that, I would  
14          appreciate it if you would share that with the  
15          Department because I know they will take action on it.

16                  MR. RAMIREZ: All right. We have one person  
17          on the line, but we're going to get John first, and  
18          then we'll get the online and then Pat.

19                  MR. AUGUSTINO: Okay. John Augustino,  
20          Honeywell.

21                  A couple of points: one is to your point  
22          about the T12 sales going down. Regarding all of the  
23          inefficient bulb sales, it is the major manufacturers  
24          that exit the market first. That doesn't mean that  
25          the market is gone. That's where the kind of the

1 under market sellers go to work, so the fact that the  
2 major manufacturer sales is going down does not  
3 indicate completely that that market is going away.  
4 It just means that other sellers, cheaper sellers, are  
5 coming in to fill that void. The whole purpose of  
6 federal standards is to eliminate that.

7 The second point is: as much as we talk  
8 about light quality and all the other issues, people  
9 buy the older technology because it's cheaper, plain  
10 and simple, and if you look at who buys the cheaper  
11 technology because they have to, it's the low-income  
12 folks. So this program, by not having a standard put  
13 in place as aggressive as it can be, hurts them most  
14 because the price of the higher technology remains  
15 higher because the market saturation is lower, and the  
16 cheaper option, which they have to take, ends up  
17 costing them more in the usage.

18 That has to be factored into all this  
19 because there's an equity issue that's not being  
20 addressed, not being considered. We're worried about  
21 retailers who are business people who can adapt, and  
22 we're not focusing on low-income consumers who don't  
23 have an option to adapt, and the last part is Mary's  
24 point about the \$50 million or other amount of money  
25 that's being impacted from uncertainty, that is her

1 utility. That is one utility of five in the state in  
2 50 states.

3 There is a tremendous amount of anxiety  
4 regarding where these investments are going, and  
5 there's opportunity costs because this uncertainty  
6 means that that money is not going where it would be  
7 benefitting something else by being put into this  
8 tranche because of the uncertainty. So we have to  
9 look at the true costs here and who's paying those  
10 costs and how much cost is on one side versus the  
11 other.

12 MR. RAMIREZ: Thank you.

13 Okay. We're going to online to Kevin and  
14 then Pat. Kevin?

15 MR. ROSE: Yeah, hi there. Kevin Rose from  
16 National Grid. We are an electricity and national gas  
17 utility serving Massachusetts, Rhode Island and New  
18 York.

19 Thank you for taking my question. I put my  
20 hand up a little while, so we've moved a little bit  
21 from this topic, but I just wanted to provide what I  
22 hope is some clarity and, if nothing else, an  
23 alternative utility perspective on some points that  
24 were shared earlier about projecting the future market  
25 volume of incandescent and halogen sales vis-a-vis

1 utility efficiency incentive programs.

2 In particular, there seem to be some amount  
3 of misalignment between regionality of where  
4 incentives seem to be more or less impactful in  
5 driving market adoption of more efficient  
6 technologies, in particular LEDs, so I think it's  
7 worth making clear perhaps explicitly clear that while  
8 utilities are typically states or regions, the  
9 manufacturers of lighting products are often, you  
10 know, larger on that scale, national scale, and so it  
11 may not be appropriate to just use a state or even  
12 regional lens when trying to suss out what the impact  
13 of those incentives are.

14 To be clear, regions and states that haven't  
15 -- historically for a long time have incentivized  
16 higher performance have helped to give manufacturers  
17 the ability to invest in R&D operations and supply  
18 chain improvements that help them to reach our  
19 markets, but which buy down the cost to enter new  
20 markets, perhaps like the southeast which was  
21 mentioned by the gentleman from Southern Company  
22 there. So yeah, just trying to bring some alignment  
23 to what I heard is a difference of opinion on the  
24 impact of lighting incentive programs on moving the  
25 market and how we should be thinking about projecting

1 the evolution of this market.

2 Thank you.

3 MR. RAMIREZ: Thank you, Kevin. Pat?

4 MR. SAXTON: Thanks. Pat Saxton, California  
5 Energy Commission.

6 I just wanted to follow on the comment that  
7 said 2020's not a hard date and Congress set up two  
8 rulemakings. Yes, Congress did and my assumption is  
9 they expected some outcome from that first 2014  
10 rulemaking before the beginning of the next one.

11 MR. RAMIREZ: Okay. I think that's all the  
12 -- no. We have two more. Okay.

13 MS. MILLER: I'll just remind you that lunch  
14 is pending.

15 (Laughter.)

16 MR. RAMIREZ: Nice. Let me get Jennifer and  
17 then Chris.

18 MS. DOLIN: Thank you. Jennifer Dolin,  
19 LEDVANCE.

20 I do want to address a couple points. One,  
21 the fluorescent lighting -- we are a very long-time  
22 manufacturer of fluorescent lighting in the United  
23 States. Our plant in Kentucky has been operating  
24 since I think the '40s, pretty efficient, takes a huge  
25 investment to manufacture fluorescent lighting, and we



1 recently announced publicly, it's not new, that that  
2 plant will be closing at the end of September.

3 That's not because of any other reason other  
4 than the market is declining. I don't think anybody  
5 can make -- maybe a couple of our colleagues can make,  
6 fluorescent lighting more efficient. Going to other  
7 manufacturers overseas, not necessarily as efficient.  
8 The market is declining. That's why plants are  
9 shutting down. As far as the incentives and the  
10 regions, agreed that -- can you still hear me? Yes?  
11 The regions, all the utilities, they do their rebates  
12 differently.

13 I acknowledge that, but a couple weeks ago I  
14 was down here for another meeting, and at the last  
15 minute I thought, shoot. I don't have show and tell,  
16 so I went to my local grocery store, and on the shelf,  
17 four-pack of halogen, Sylvania brand, which is our  
18 brand. LEDVANCE is the maker of Sylvania brand, and a  
19 package of four-pack LED. The LEDs with no incentives  
20 at all were a dollar cheaper. So the whole notion of  
21 one-size-fits-all, I think, really needs to be  
22 considered when you're reviewing the comments, and  
23 lastly, sorry. I am going back a little bit farther  
24 to the comments that were made by Noah and Chris.

25 And we've known each for quite some time,

1 and we've been in very similar conversations, and one  
2 thing that I've noticed throughout these more than 20  
3 years, and in particular today, you're oftentimes  
4 looking at what could happen, the one-offs, the what  
5 ifs. I respect that you are tasked with looking at a  
6 topic or an issue from one very specific perspective,  
7 and I just ask that all perspectives be considered.  
8 Noah, your examples are Sylvania incandescent  
9 candelabra, and then you've taken the other  
10 manufacturers, so it's almost like you're looking at  
11 hero versus villain when, in fact, we all make  
12 everything.

13 And the reason that we make everything is  
14 because there's a complex decision-making process  
15 between manufacturers, retailers and consumers about  
16 what the needs are of those end users, and we're all  
17 working to meet those needs recognizing that the  
18 market, as you've heard here, is declining. LEDs are  
19 taking over for incandescent, but as I think Dave had  
20 said, we don't need the regulations to rule out one or  
21 basically require consumers to buy one technology or  
22 one particular thing. It is a consumer choice.  
23 That's how we've operated for decades, for centuries,  
24 and that's all we're asking here.

25 MR. RAMIREZ: Okay. Thank you. Chris?

1 MR. PRIMOUS: Chris Primous from MaxLite.

2 So this slide that we've been on 40 minutes

3 --

4 (Laughter.)

5 MR. PRIMOUS: I'm just trying to read it.

6 Do you have the numbers for those seven since it is in

7 black and white and we can't quite decipher it. Can

8 you tell us the numbers for those seven?

9 MS. MILLER: Yeah, I can grab it from my

10 Excel sheet in my office and tell it to you guys after

11 lunch.

12 MR. PRIMOUS: Okay. Thank you.

13 MR. RAMIREZ: Yeah, I thought data was going

14 to be the easy stuff. All right. So 45 minutes for

15 lunch. Did you have anything else on data before we

16 break?

17 MS. MILLER: My data is that 90 percent of

18 the people in this room want to eat lunch.

19 (Laughter.)

20 MR. RAMIREZ: All right. Don, you realize

21 what you're doing there?

22 MR. BRUNDAGE: Yeah.

23 MR. BOESENBERG: Okay.

24 MR. BRUNDAGE: Well, I'm just wondering. It

25 looks to me like we're -- what all do we have after we

1       come back from lunch? It looks like we're pretty much  
2       through with the slides.

3               MR. RAMIREZ: Yes, that's correct. We are,  
4       and so if you look at the -- well, the slides as far  
5       as presentation of the issue. Now we have the issue  
6       boxes for discussion, so during lunch, you could take  
7       a look at those issue boxes or let me pick on this a  
8       little bit. Are you saying that you've shared  
9       everything that you've wanted to share or let me ask  
10      the DOE. The issue boxes that you had on there, was a  
11      lot of that conversation covered this morning?

12             MS. MILLER: Many of the issue boxes pertain  
13      to very specific data that I don't think people in  
14      this room have accessible to us at this point.  
15      However, please correct me if I'm wrong on that?

16             MR. RAMIREZ: Okay.

17             MS. MILLER: But I also don't want to rule  
18      out if people have additional comments that were not  
19      covered by these slides. We could also cover that at  
20      a later point.

21             MR. RAMIREZ: Right. I want to make sure --  
22      when we were coming, I mentioned I wanted to make sure  
23      that everyone that wants to have an opportunity to  
24      make comments could do so. If we need to take a few  
25      extra minutes here to button it up and boogie, I'm

1       okay with that, right? But I just want to make sure  
2       everyone has that opportunity.

3               MR. BRUNDAGE: Yeah, that was my point  
4       because most of the remaining issues looked more like  
5       homework assignments for the manufacturers where  
6       they're going to have to do some research. It won't  
7       be something that comes through discussion.

8               MR. RAMIREZ: Yeah. Sofie, I tried, right?

9               MS. MILLER: Yeah, it's homework. If you've  
10       got it, I want it.

11              MR. RAMIREZ: Okay. David, do you have  
12       something?

13              MR. GATTO: No.

14              MR. RAMIREZ: No? Okay. Is everyone okay  
15       then -- let me make sure the folks online as well if  
16       there's no other additional comments, and if the  
17       Department is comfortable that everyone's had the  
18       opportunity to share and you've covered everything  
19       that you had in your agenda, then maybe we can  
20       conclude, but, Jennifer, you have a comment?

21              MS. DOLIN: Yeah, I just had a quick comment  
22       on the questions that DOE is asking. I mean, are we  
23       not coming back to those? Because my question is that  
24       this is very specific to the retailer and the movement  
25       of lamps through the retailer shelves, and I'm just

1       wondering if DOE wants comments about the rest of the  
2       supply chain and the timing, so should we read that as  
3       retailer/anyone else?

4               MS. MILLER: I think that would be helpful,  
5       and also from the utility side, since we've been  
6       hearing about uncertainty there as well, if these  
7       questions are applicable to that sphere, then, of  
8       course, we're interested in those data.

9               MR. RAMIREZ: Okay. Joe?

10              MR. HOWLEY: So if we're buttoning this up,  
11       I guess -- Joe Howley, GE. I would like to make one  
12       final comment if we are closing this out?

13              MR. RAMIREZ: It appears so, so yeah, go  
14       ahead.

15              MR. HOWLEY: Okay. So just -- I mean,  
16       during the course of the day, I'd like to thank DOE  
17       for explaining why the five exempt types are not  
18       covered, why the reflector lamps are not covered, why  
19       the specialty incandescent, including candelabra-based  
20       lamps are not covered. I'd also like to thank DOE for  
21       making it clear to manufacturers and retailers that  
22       although the backstop has been triggered for vibration  
23       service and rough service lamps, at this time the  
24       backstop has not been triggered for general service  
25       lamps. This clarity will help greatly with lamp sales

1 planning in 2020, so thank you.

2 MR. RAMIREZ: Noah? Okay. Go ahead.

3 MR. BALLO: Tim Ballo, Earthjustice. I just  
4 want to express my disagreement with the contention  
5 that DOE has provided clarity. DOE, I think, could  
6 provide clarity if it said that the backstop has been  
7 triggered and we are prepared to enforce it. DOE  
8 cannot provide clarity that the backstop has not been  
9 triggered. A Judge at some point will provide that  
10 clarity, and I think it's irresponsible for the  
11 Department to take this position because you are  
12 forcing retailers and manufacturers to decide, in the  
13 words of Dirty Harry, do I feel lucky? Thank you.

14 MR. RAMIREZ: Thank you, Tim. Let me go in  
15 the back over there. Please state your name?

16 MR. ELDER: Yeah, Rich Elder, Lubin Olsen.

17 So I had a couple of questions for Dan or  
18 some points that we'd like to try to clarify. Dan,  
19 you spoke about what you described a legal catch 22  
20 relating to the Burgess Rider. Do you remember that?  
21 And do I understand correctly that it's the  
22 Department's position that the Burgess Rider precluded  
23 it from expending money to consider whether to amend  
24 energy conservation standards for general service  
25 lamps, including GSILs?

1                   MR. COHEN: No, that's not completely  
2 accurate.

3                   MR. ELDER: How is that inaccurate?

4                   MR. COHEN: The Burgess Amendment, as we  
5 stated multiple times throughout this rulemaking  
6 proceeding, prior versions of this rulemaking  
7 proceeding, prevented us from looking at incandescent  
8 lamps. They were specifically directed towards  
9 incandescent technology, so it wasn't GSL's writ  
10 large. It was just incandescent lamps, and as a  
11 result, the proposed rule that we published back in  
12 March of 2016, which made that point multiple times,  
13 only really focused on -- in terms of the data that  
14 was analyzed -- LEDs, CFLs and those technologies.

15                  MR. ELDER: All right. So it's the  
16 Department's position that the Department was  
17 precluded from or unable to consider whether to amend  
18 energy conservation standards for GSILs. Is that  
19 correct?

20                  MR. COHEN: I mean, I think it's the exact  
21 words because -- if you give me just one moment I will  
22 find the precise words out of the --

23                  MR. RAMIREZ: So, Dan, why don't you take a  
24 moment. Noah, did you have something? Yeah, go  
25 ahead.



1                   MR. HOROWITZ: Noah Horowitz with NRDC.  
2       I've got a couple of points related to these questions  
3       as it seems like we're going to do that now, right?  
4       So if that's the right time and then a quick closing  
5       statement. I understand the agency's looking for  
6       additional information to help quantify the impact on  
7       retailers, but we think the Agency's being remiss by  
8       not also requesting information and taking into  
9       consideration the consumer savings and benefits and  
10      also the environmental benefits.

11                  Secondly, a lot of the questions like No. 6,  
12      what are the opportunity costs associated with an open  
13      bay? That could be a potential benefit to the  
14      retailer, so right now retailers are stocking up to  
15      four different types of light bulbs, incandescents,  
16      halogens, CFLs and LEDs. When the incandescents and  
17      halogens are no longer on the shelf, that provides  
18      them the opportunity since they already have LEDs on  
19      the shelf to use that shelf space to sell other  
20      products that will provide revenue, and I'm hoping  
21      that information could be provided and that's  
22      considered.

23                  And a question I have for you, Sofie, before  
24      I close up my comments is the Agency's requesting all  
25      this data on retailer impacts, and what is the purpose

1 of collecting that data? Is it for Executive Order  
2 13771? Can you help us understand that?

3 MALE VOICE: I'm sorry. Can you repeat  
4 that?

5 MALE VOICE: Yeah, Dan was doing the  
6 homework from the previous questions.

7 MR. HOROWITZ: Sure. I'd be happy to repeat  
8 that. So a lot of these questions are tailored to  
9 retailer impacts, and I suggested we encourage you to  
10 collect information on the other impacts, but why is  
11 this retailer information being focused on? What's  
12 the purpose of collecting the data? Is it for  
13 purposes of Executive Order 13771?

14 MR. COHEN: The purpose of those analyses  
15 and the data that we have presented here is try to  
16 quantify what we have heard is the uncertainty  
17 presented by our lack of clarity on the application of  
18 the backstop and what lamps are included or not  
19 included in the definition. That's the purpose of  
20 that analysis.

21 MR. HOROWITZ: And what do you plan to do  
22 with that information? How would that change whether  
23 or not a product is exempt or that the backstop has  
24 been triggered and all these other issues?

25 MR. COHEN: So they are separate issues. We

1 are trying to just understand what the world is out  
2 there and what the impacts are of what our prior  
3 actions were.

4 MR. HOROWITZ: Okay. And I've got a closing  
5 statement.

6 MR. RAMIREZ: That's fine. Dan, I'll let  
7 you -- you can go back, so go ahead to your comment  
8 then.

9 MR. HOROWITZ: Okay. Thank you.

10 I appreciate the opportunity to participate  
11 here and for ongoing dialogue. I want to reiterate  
12 the statements we made earlier, and we can't be more  
13 clear on this. The backstop has been triggered. The  
14 standard of 45 lumens per watt as we understand it  
15 goes into even 1-1-2020 and that it's illegal to roll  
16 back the definitions.

17 We've also heard a lot of comments from the  
18 manufacturers saying the market is shifting. Let the  
19 incandescents and halogens continue to have their sale  
20 erode, and the market will take care of it. We don't  
21 need standards.

22 There isn't an option here. Congress  
23 already wrote the law. The law says there will be  
24 standards. We can argue and have debates in terms of  
25 what exactly is in the scope and what the stringency

1 is, but it's not an option to just have the market  
2 take care of things. I just want to make that crystal  
3 clear. Thank you.

4 MR. RAMIREZ: All right. Dan, how are you  
5 doing there?

6 MR. COHEN: So unfortunately the statement  
7 that I was looking for was actually from the March  
8 2016 proposal, but in the proposal we're discussing  
9 today, we refer to it, and we paraphrase it, so it's a  
10 little bit of a -- it's not precisely. And we can get  
11 you the exact words, but it's pretty close to this,  
12 and I'm reading now -- this is from the Federal  
13 Registry notice on February 11, 2019, so it's on page  
14 3122 in the left-hand column about halfway down where  
15 we say in the March 2016 proposed rule proposing  
16 energy conservation standards for GSILs, DOE stated  
17 that it would be unable to undertake any analysis  
18 regarding GSILs and other incandescent lamps because  
19 of a then applicable Congressional restriction, i.e.  
20 the appropriations rider, on the use of appropriated  
21 funds to implement or enforce 10 C.F.R. 430.32(x).

22 MR. ELDER: Rich Elder again. That's a  
23 helpful clarification, so it's correct then that it's  
24 the Department's position that the Burgess Rider  
25 precluded the Department from expending monies to

1 consider whether to amend any energy conservation  
2 standards for GSILs. That's correct?

3 MR. COHEN: That is correct.

4 MR. ELDER: Okay.

5 MR. COHEN: In the statement we made  
6 multiple times in the earlier iterations of this  
7 procedure.

8 MR. ELDER: All right. And for that reason,  
9 the Department did not make any determination that the  
10 standards for GSILs needed to be amended prior to  
11 January 1, 2017, correct?

12 MR. COHEN: That is correct. As I stated  
13 earlier, we were given two tasks. That was one of the  
14 two tasks, and we stated that in the proposal in March  
15 of 2016, and I believe we also said that in the  
16 January 2017 comprehensive rule that we could not have  
17 made that determination, that in fact had not made  
18 that determination as of the date of that final rule.

19 MR. ELDER: Okay. And that goes to the next  
20 question that I had, which is that the Department did  
21 not complete a rulemaking regarding GSILs prior to  
22 January 1, 2017, to amend those standards, right?

23 MR. COHEN: As I said, our position is we  
24 were legally prohibited from making the determination  
25 with regard to incandescent lamps and general service

1 incandescent lamps.

2 MR. ELDER: And as a result of -- sorry.

3 MR. COHEN: And that is a rulemaking we are  
4 still obligated to do, and we are, in fact, engaged in  
5 that rulemaking.

6 MR. ELDER: But that rulemaking was not  
7 completed before January 1, 2017, correct?

8 MR. COHEN: We were legally prohibited from  
9 engaging and making a decision.

10 MR. ELDER: All right. Is there anything  
11 about the Burgess Rider that the Department believes  
12 permits that rulemaking to proceed now after  
13 January 1, 2017?

14 MR. COHEN: The Burgess Amendment no longer  
15 exists.

16 MR. ELDER: Okay. So is that a no?

17 MR. COHEN: Please restate your question.

18 MR. ELDER: Yes, is there anything about the  
19 Burgess Rider that you believe authorizes the  
20 Department to complete that rulemaking now after  
21 January 1, 2017?

22 MR. COHEN: Because we are no longer  
23 prohibited from spending money as was the case under  
24 the Burgess Amendment, we can in fact collect data and  
25 make that decision that we are obligated to make, and,

1 in fact, that was part of what we did earlier in 2017  
2 where we -- I forget the exact date, when we published  
3 the notice of data availability seeking data to help  
4 inform that obligation.

5 MR. ELDER: Is there anything in the text of  
6 the statute that you believe provides that  
7 authorization to the Department specifically?  
8 Authorization to conduct a rulemaking now after  
9 January 1, 2017?

10 MR. COHEN: So the statute obligated us to  
11 make that decision, and we believe we still have that  
12 obligation imposed upon us.

13 MR. ELDER: Even now after 2017.

14 MR. COHEN: Yes.

15 MR. ELDER: Even now after January 1, 2017?

16 MR. COHEN: Yes.

17 MR. ELDER: And can you point to any  
18 specific statutory language that you believe provides  
19 that authorization?

20 MR. COHEN: Well, again, 6295(i)(6) tells  
21 the Secretary to make that determination.

22 MR. ELDER: Prior to January 1, 2017, if  
23 they're going to do it all, correct?

24 MR. COHEN: No. What the statute says is if  
25 the Secretary determines that standards in effect for

1 general service incandescent lamps should be amended,  
2 then he shall issue a rule and that date is present  
3 there, but there's a predicate for that requirement,  
4 which is the determination which we were legally  
5 prohibited from making.

6 MR. RAMIREZ: Rich, you good?

7 MR. ELDER: Yeah, that's all I have at this  
8 time. Thank you.

9 MR. RAMIREZ: Okay. Yeah, Dave?

10 MR. GATTO: Sorry. Just real briefly. Dave  
11 Gatto, Westinghouse Lighting. It's the room, Alex.  
12 The new room has just thrown me off. I took years to  
13 get used to doing that.

14 Just so I'm clear, and I guess I'm probably  
15 partly speaking for all of industry, but just  
16 specifically for Westinghouse, Noah, we're not saying  
17 that there shouldn't be any standards. We've been a  
18 proponent of strong, reasonable national standards all  
19 along. What we're objecting to and what we objected  
20 to in January of 2017 and what we're a proponent of  
21 now is that the word reasonable still applies, so I do  
22 appreciate that if it sounded like, and I may have  
23 made it sound like we don't want any standards.  
24 That's not accurate. Yes?

25 MR. RAMIREZ: Yeah, Noah?



1 MR. HOROWITZ: Just want to -- let me pull  
2 this up.

3 MR. RAMIREZ: Noah Horowitz.

4 MR. HOROWITZ: Thank you. Noah Horowitz  
5 with NRDC.

6 Sofie, there was a lot of discussion on the  
7 slides and some uncertainty as to where the data came  
8 from and seeking more clarity. Can you tell us when  
9 we can expect that data and will it come through an  
10 email or the Federal Register? Thanks.

11 MS. MILLER: I'm not sure how we've done  
12 that in the past, so I'll defer to what past practice  
13 has been like just chatting with other folks offline,  
14 but I could see it taking either one of those forms.  
15 I don't know what you guys think would be more  
16 convenient. We could post something in the docket and  
17 then email you about it. Do you envision something  
18 specific, or what would be the most helpful here?

19 MR. HOROWITZ: Just as long as the data's  
20 widely disseminated and thorough. Any of those  
21 vehicles sounds great, appreciate your followup.

22 MR. RAMIREZ: Tim?

23 MR. BALLO: Tim at Earthjustice.

24 This is obviously more an issue for the  
25 folks on the efficiency advocate side that are

1     technically knowledgeable, and I am obviously not, but  
2     I just want to make the point that we do really care  
3     about seeing that data, and if we don't get it until,  
4     you know, I don't know how long, but at some point,  
5     we're going to need an extension of the comment period  
6     to adequately comment on that data.

7                 MR. RAMIREZ:  Do you have even a ballpark of  
8     what might be reasonable for you to have that to  
9     analyze?

10                MR. BALLO:  I'm going to put that in Noah's  
11     -- make that his problem.

12                MR. RAMIREZ:  You know, the only reason I'm  
13     questioning is that, I mean, and I don't know what  
14     type of turnaround, but if it's a quick turnaround,  
15     there may be no need to extend, right?  So that's why  
16     I'm trying to engage how much time we think you would  
17     need with the data to see if there's any consideration  
18     that needs to be given to extend that deadline.

19                MR. HOROWITZ:  Noah Horowitz, NRDC.

20                Let's see the data, and then we can tell you  
21     if it's complete and whether more time is needed.  I'm  
22     sorry.  I can't --

23                MR. RAMIREZ:  Yes.  Chris?

24                MR. GRANDA:  Chris Granda, Appliance  
25     Standards Awareness Project.

1 I'd like to formally request an extension of  
2 the comment period.

3 MR. RAMIREZ: Okay. At 12:04, I thought Don  
4 was going to be the villain for asking a question. I  
5 think he's the hero now because I believe we're done.  
6 Are there any -- Patrick?

7 MR. SAXTON: Pat Saxton, California Energy  
8 Commission. We, I think, thankfully didn't go down  
9 too much road to day on if the backstop is or isn't  
10 triggered. There's been a couple of pretty positive  
11 assertions here towards the end by some folks that  
12 hasn't. I'll just say that on the EISA scope of  
13 general service lamps, California's been enforcing  
14 that for over a year on something that was contingent  
15 upon it being triggered, so we would strongly  
16 disagree.

17 MR. RAMIREZ: Thank you. Mary?

18 MS. ANDERSON: So Mary Anderson, PG&E. I  
19 just wanted to make a closing statement. As large  
20 utility companies with a long history of running  
21 energy efficiency programs, we have invested  
22 significantly for many years into high-efficiency  
23 lighting and with other stakeholders here today, and  
24 we plan our program efforts out several years in  
25 advance and make business decisions based on our

1 analysis of the regulatory conditions for any given  
2 market. With respect to general service lamps, we  
3 have already made our future plans for 2020 and beyond  
4 based on the clear regulatory environment, which is  
5 that the expanded scope products will be general  
6 service lamps and will be subjected to the 45 lumen  
7 per watt backstop.

8           Despite the proposal of this NOPR, we are  
9 continuing to plan on all of these lamp types being  
10 covered as GSLs in 2020. We do not believe there is  
11 any legal basis for DOE to roll back the definitions  
12 adopted in January 2017, and we do not see any legal  
13 basis for DOE to proceed with the proposal in this  
14 NOPR. If DOE proceeds in a final rule with this  
15 proposal, DOE will be challenged by any number of  
16 litigants, and we believe DOE's proposal in this NOPR  
17 will be overturned and the January 2017 definitions  
18 will be withheld.

19           For these reasons, we continue planning for  
20 2020 with that understanding and our recommendation to  
21 other stakeholders, to other utilities, to  
22 manufacturers and to retailers is that they also  
23 continue to plan these expanded scope lamps being  
24 covered in 2010. We believe that any stakeholder who  
25 makes business decisions based on this NOPR is taking

1 a significant risk.

2 Specifically, we believe retailers or  
3 manufacturers who make plans to continue manufacturing  
4 or selling halogen or incandescent versions of these  
5 expanded scope products past January 1, 2020, will put  
6 themselves at risk for selling non-compliance products  
7 or being stuck with a significant stock that cannot be  
8 sold. We therefore believe DOE's proposal in this  
9 NOPR only introduces uncertainty and risk to these key  
10 market actors. In this way, the proposal is  
11 disruptive to the market and will result in additional  
12 added burden and financial cost to the industry.

13 Thank you.

14 MR. RAMIREZ: Great. Thank you, Mary.

15 Anything else before we adjourn? I really  
16 want to thank you all for truly being professional and  
17 concise and targeted, and hopefully we'll get a chance  
18 to work again. Thank you, everyone.

19 (Whereupon, at 12:30 p.m., the meeting in  
20 the above-entitled matter was concluded.)

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23 //

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REPORTER'S CERTIFICATE

DOCKET NO.:       --

CASE TITLE:       Notice of Proposed Rulemaking for  
                    General Service Lamps

HEARING DATE:     February 28, 2019

LOCATION:           Washington, D.C.

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the Department of Energy, Office of Energy Efficiency and Renewable Energy.

Date: February 28, 2019

A handwritten signature in dark ink, appearing to read "David Jones", is written over a horizontal line.

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